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FEDERAL - STATE - PRIVATE COOPERATIVE
SNOW SURVEY and WATER SUPPLY FORECASTS
for
OREGON

UNITED STATES DEPARTMENT of AGRICULTURE
SOIL CONSERVATION SERVICE
and
OREGON AGRICULTURAL EXPERIMENT STATION

Data included in this report were obtained by the agencies named above
in cooperation with other Federal, State and private organizations.

AS OF
FEB. 1, 1958

UNITED STATES DEPARTMENT OF AGRICULTURE - SOIL CONSERVATION SERVICE

TO RECIPIENTS OF COOPERATIVE SNOW SURVEY AND WATER SUPPLY FORECAST REPORTS:

The climate of the cultivated and populated areas of the West is characterized by relatively dry summer months. Such precipitation as occurs falls mostly in the winter and early spring months when it is of little immediate benefit to growing crops. Fortunately, most of this precipitation falls as mountain snow which stays on the ground for months, melting later to sustain streamflow during the period of greatest demand during late spring and summer. Thus, nature provides in mountain snow an imposing water storage facility.

The amount of water stored in mountain snow varies from place to place as well as from year to year and accordingly, so does the runoff of the streams. The best seasonal management of variable western water supplies results from fore-knowledge of the runoff.

A snow survey consists of a series of about ten samples taken with specially designed snow sampling equipment along a permanently marked line, about 1000 feet in length, called a snow course. The use of snow sampling equipment provides snow depth and water equivalent values for each sampling point. The average of these values is reported as the snow survey measurement for a snow course.

Snow surveys are made monthly or semi-monthly beginning in January or February and continue through the snow season until April, May or June. Currently more than 1300 western snow courses are measured each year. These measurements furnish the key data for water supply forecasts.

By relating snow survey measurements taken over a period of years to spring-summer runoff during the same period, relationships have been developed which make it possible to forecast seasonal runoff several months in advance of occurrence. In order to make a forecast, once a forecast relationship has been developed, the maximum snow water content at previously selected key snow courses is usually entered in the forecast relationship. More accurate forecasts are often obtained when other factors such as soil moisture, base flow and spring precipitation are considered and included in the forecast relationships.

Listed below are the Federal-State-Private Cooperative Snow Survey and Water Supply Forecast reports available for the West which contain detailed information on snow survey measurements, streamflow forecasts, reservoir storage, soil moisture and other guide data to water management and conservation decisions.

PUBLISHED BY SOIL CONSERVATION SERVICE

| REPORTS | ISSUED | COOPERATING WITH | LOCATION |
|--|--------------------------------------|-------------------------|--------------------|
| RIVER BASINS | | | |
| COLORADO, RIO GRANDE AND PLATTE-ARKANSAS | MONTHLY (FEB.-MAY) | COLO. EXP. STATION | FT. COLLINS, COLO. |
| COLUMBIA Includes Alaska | MONTHLY (JAN.-MAY) | | BOISE, IDAHO |
| UPPER MISSOURI | MONTHLY (FEB.-MAY) | MONT. AGR. EXP. STATION | BOZEMAN, MONTANA |
| WEST-WIDE | SEMI-ANNUALLY (OCT. 1 AND APR. 1) | COOPERATORS | PORTLAND, OREGON |

| | | | |
|---------------|----------------------------------|---|----------------------|
| STATES | | | |
| ARIZONA | SEMI-MONTHLY (JAN. 15-APR. 1) | SALT R. VALLEY WATER USERS ASSOCIATION | PHOENIX, ARIZONA |
| NEVADA | MONTHLY (FEB.-APR.) | NEVADA STATE ENGINEER | RENO, NEVADA |
| OREGON | MONTHLY (JAN.-MAY) | ORE. AGR. EXP. STATION | PORTLAND, OREGON |
| UTAH | MONTHLY (JAN.-MAY) | UTAH STATE ENGINEER UTAH AGR. EXP. STATION | SALT LAKE CITY, UTAH |
| WASHINGTON | MONTHLY (FEB.-MAY) | WASH. STATE DEPT. OF CONSERVATION AND DEVELOPMENT | SPOKANE, WASHINGTON |
| WYOMING | MONTHLY (FEB.-JUNE) | WYOMING STATE ENGINEER | CASPER, WYOMING |

Copies of the various reports may be secured from: Head, Water Supply Forecasting Section
Soil Conservation Service
209 S.W. 5th Avenue, Portland 4, Oregon

PUBLISHED BY OTHER AGENCIES

OTHER SNOW SURVEY REPORTS

| | | |
|------------------|---------------------|--|
| BRITISH COLUMBIA | MONTHLY (FEB.-JUNE) | COMPTROLLER, WATER RIGHTS BR., DEPT. OF LANOS AND FORESTS, PARLIAMENT BLDGS. VICTORIA, B.C. |
| CALIFORNIA | MONTHLY (FEB.-MAY) | CALIFORNIA DEPARTMENT OF WATER RESOURCES, SACRAMENTO, CALIFORNIA |

FEDERAL - STATE - PRIVATE COOPERATIVE
SNOW SURVEY and WATER SUPPLY FORECASTS
for
OREGON

ISSUED

FEBRUARY 8, 1958

Report prepared by
W. T. FROST, Snow Survey Supervisor
and
MANES BARTON, Assistant Snow Survey Supervisor
SOIL CONSERVATION SERVICE
209 S.W. 5TH AVE. PORTLAND 4, OREGON

Issued by

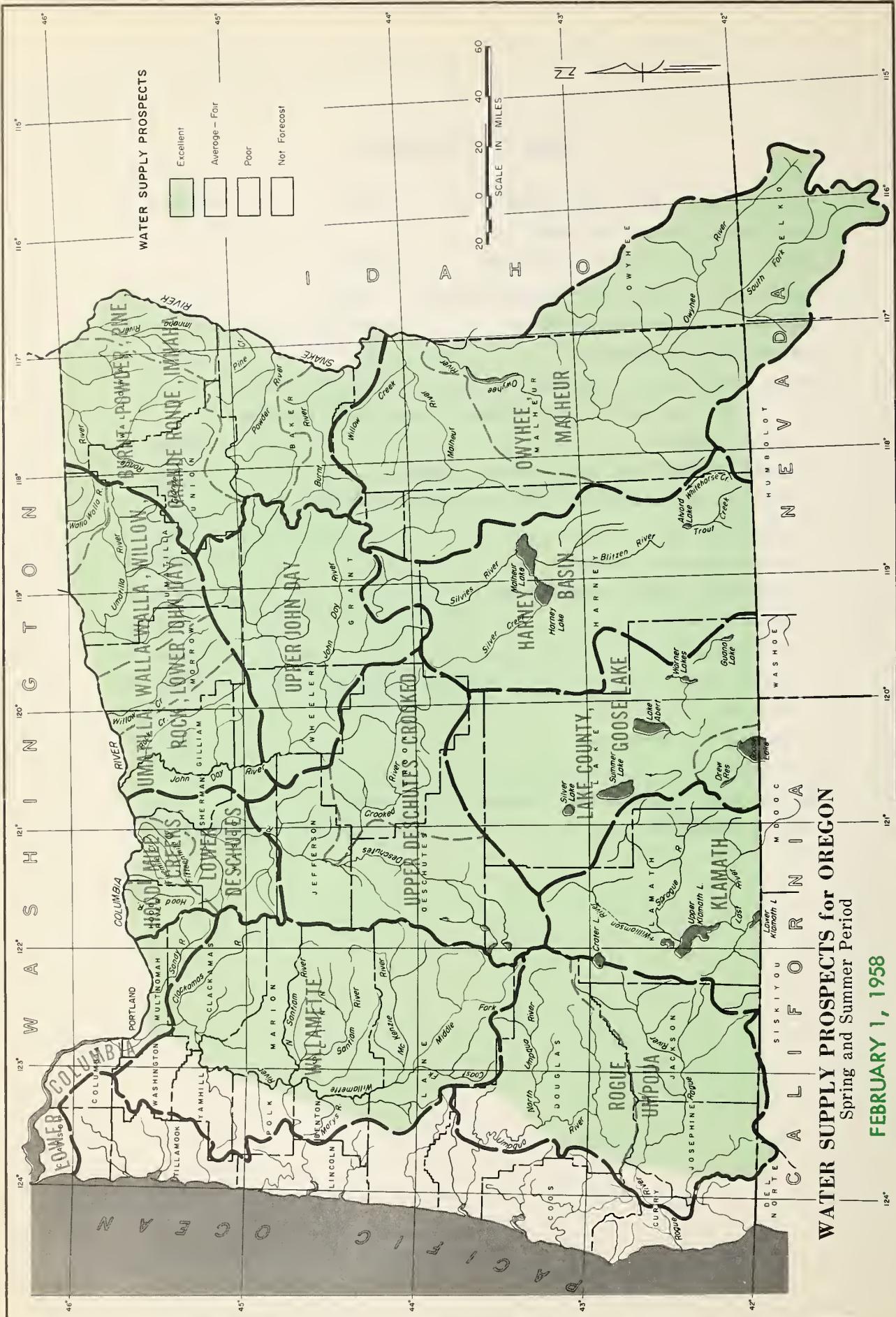
THOMAS P. HELSETH
STATE CONSERVATIONIST
SOIL CONSERVATION SERVICE

F. EARL PRICE
DIRECTOR
OREGON AGRICULTURAL
EXPERIMENT STATION



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WATER SUPPLY OUTLOOK for OREGON

FEBRUARY 1, 1958

Water supplies for Oregon's irrigated lands will be average or better in 1958. State-wide snow-cover is much above last year and reservoird water supplies are well above normal.

SNOW-COVER:

Water content of the mountain snow-pack averages 124 percent normal compared with 70 percent normal last year at this date. Snow-cover is generally adequate in amount with many scattered areas having an abundant snow-pack. The Hood River - Wasco County area has a 91 percent snow-pack in contrast with the Umatilla - Walla Walla area where the snow is 156 percent average.

Normally, about 65 percent of the total winter's snow is accumulated by February 1. This year Oregon already has accumulated 78 percent of the usual winter's total snow-pack.

SOIL-MOISTURE:

Wetness of soils under mountain snow-cover is very good in most watersheds of the state. Soil-moisture at moderate and low elevations has increased due to recent warm rain storms and snow-melt.

RESERVOIR STORAGE:

Stored water in 24 important reservoirs is now 127 percent of the 15 year average and 112 percent of last year. Expected inflow will increase stored water in all of these reservoirs.

PRECIPITATION:

State-wide precipitation¹ averaged 115 percent normal at 13 valley stations for the October-January period. January was 162 percent normal at these stations.

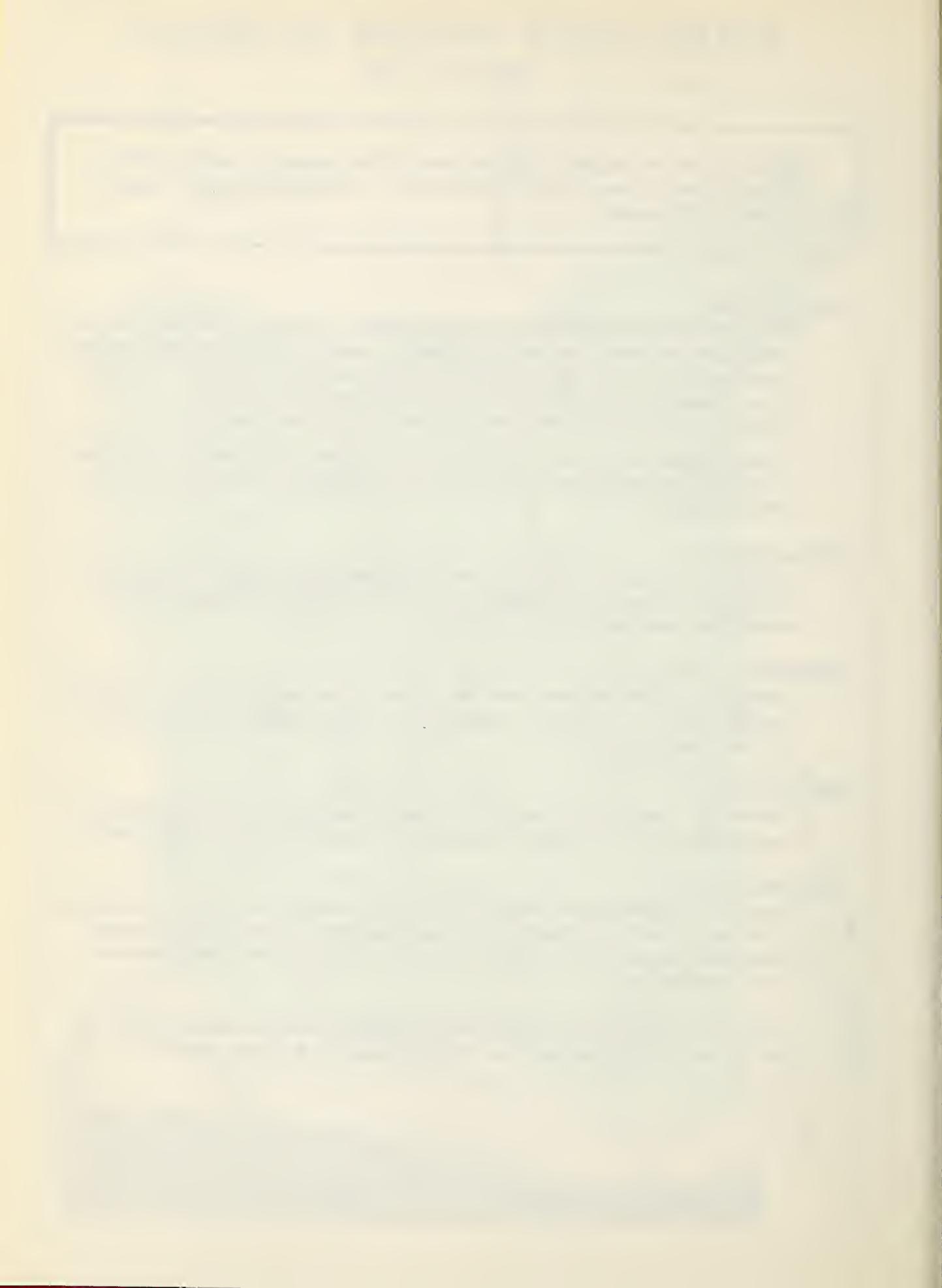
STREAMFLOW:

Forecasts of streamflow for the irrigation season average normal or a little better in the state. Inflow to Hyatt Lake in the Rogue Basin is forecast at 83 percent average in contrast to 125 percent average for discharge into Gerber Reservoir in the Klamath Basin.

Discharge² of key Oregon streams during January has varied from a low of 74 percent on the Owyhee to a high of 159 percent on the Rogue River.

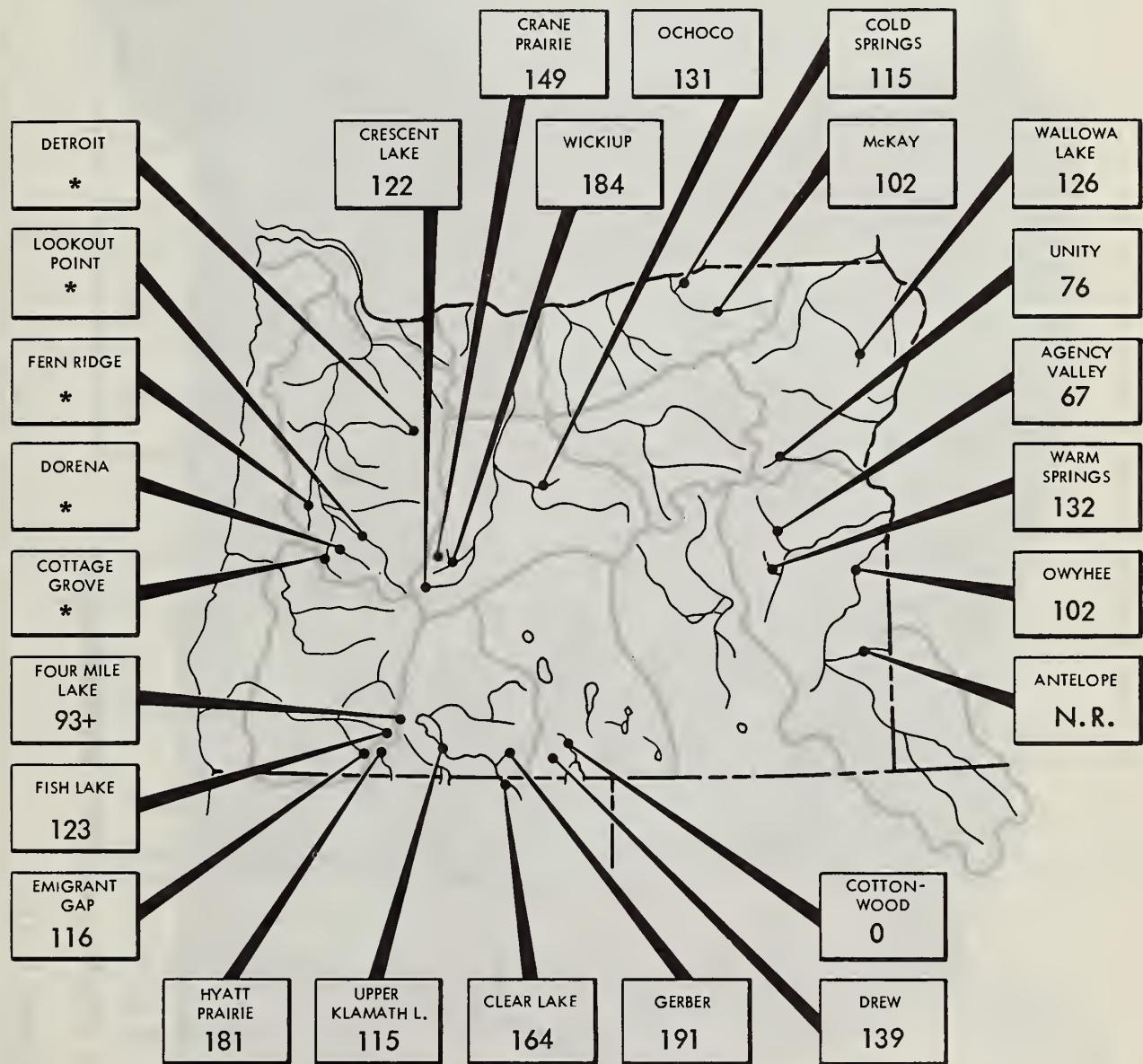
¹From preliminary data furnished by U.S. Weather Bureau, Portland, Oregon.

²From preliminary data furnished by U.S. Geological Survey, Portland, Oregon.



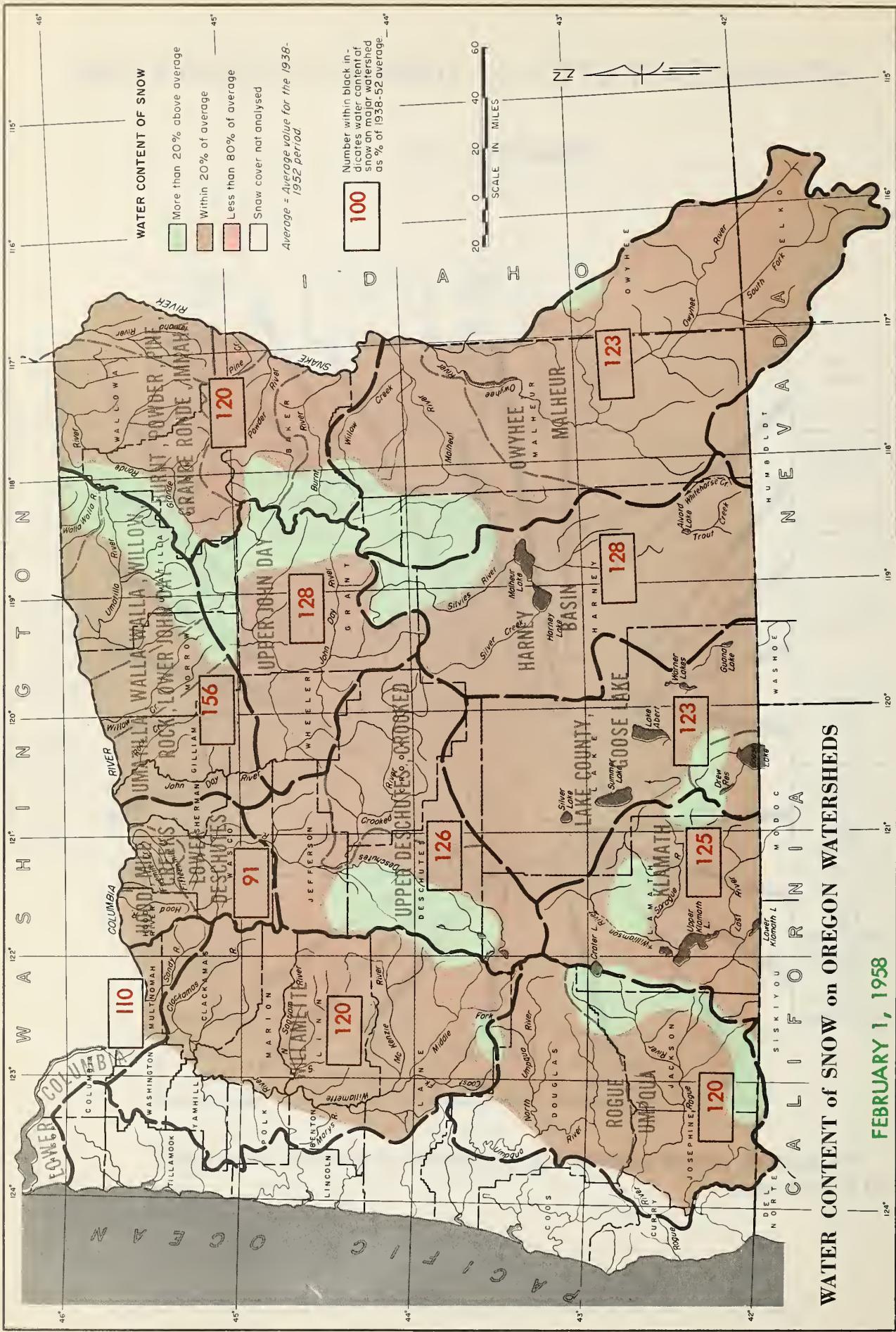
STORAGE STATUS of OREGON RESERVOIRS

FEBRUARY 1, 1958



* - Multiple purpose reservoir - space reserved primarily for flood runoff.
N.R. - No report.

Figures given are usable storage as percent of 1938-52, 15 year average.

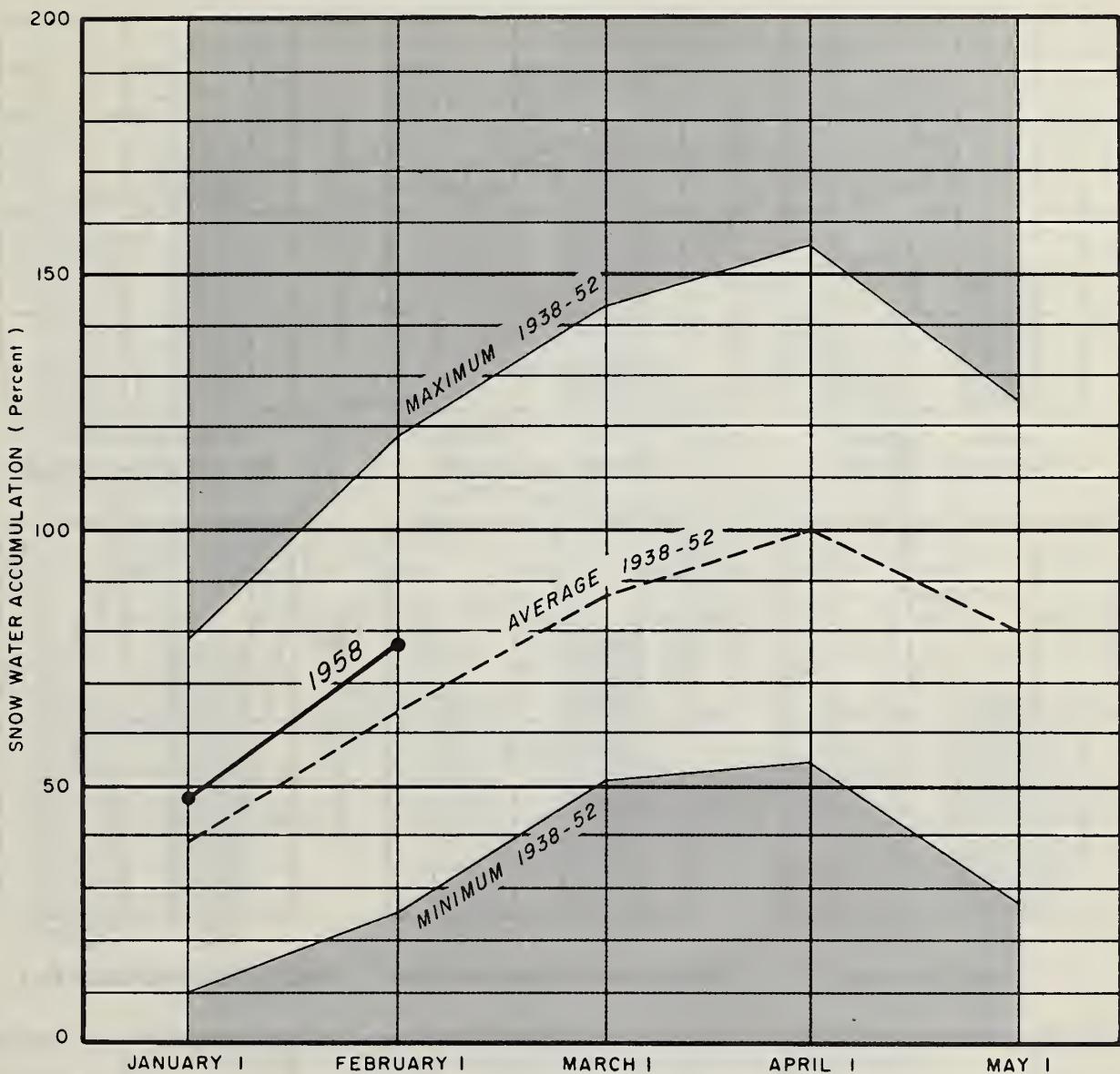


WATER CONTENT of SNOW on OREGON WATERSHEDS

FEBRUARY 1, 1958

SNOW WATER ACCUMULATION in OREGON

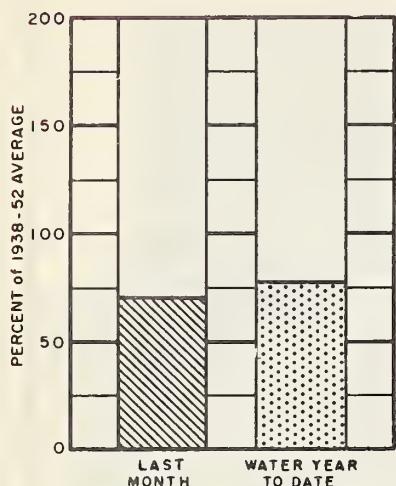
FEBRUARY 1, 1958



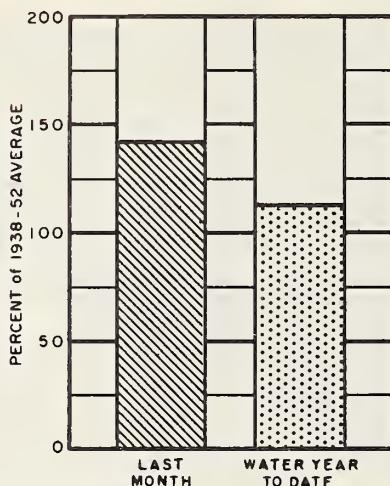
The accumulation of snow water continues to be greater than average. Usually there is about 65 percent on the ground by February 1 but this year we have 78 percent.

CURRENT OREGON STREAMFLOW

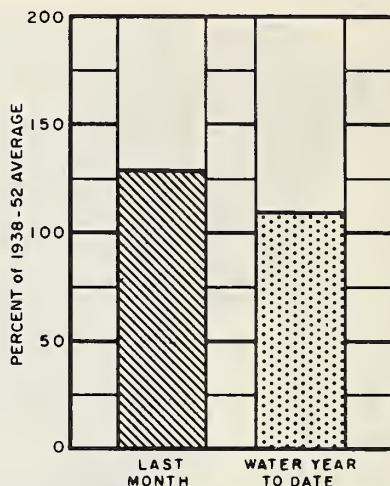
FEBRUARY 1, 1958



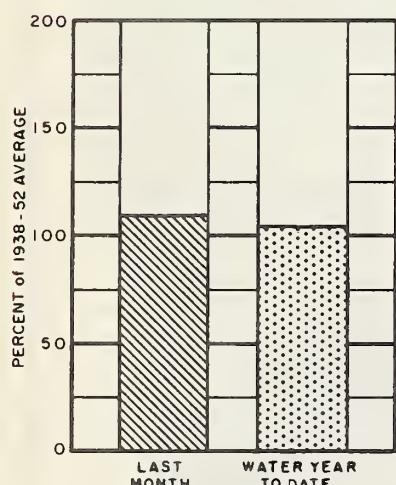
Owyhee Res. net inflow



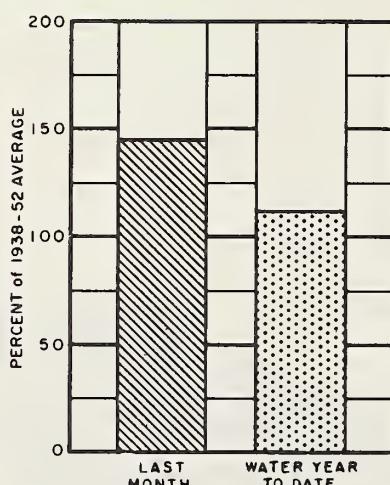
Umatilla near Umatilla



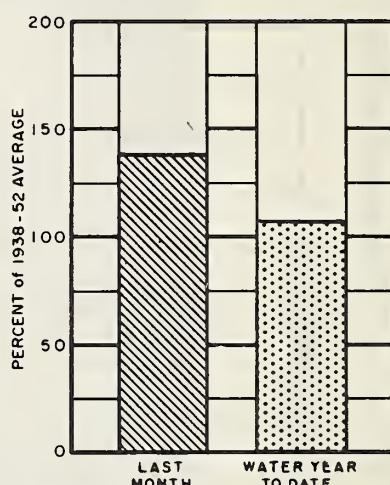
John Day at Service Creek



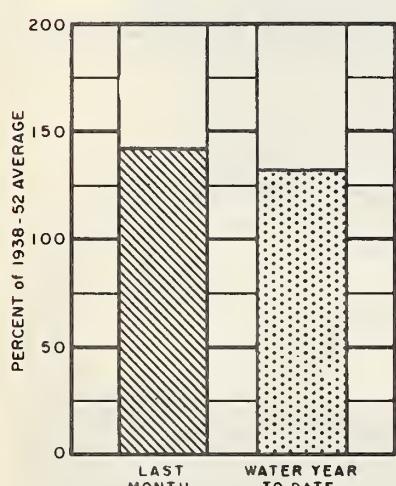
Deschutes at Moody



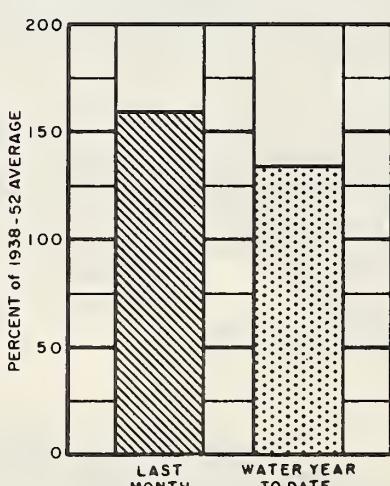
Hood and conduit near Hood River



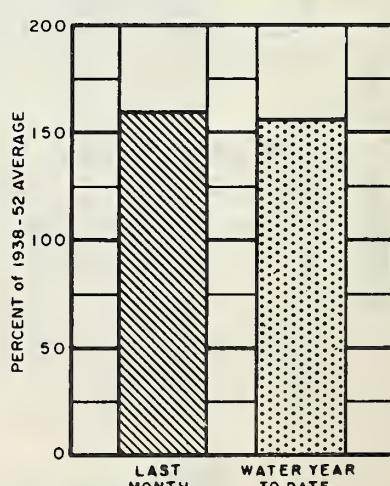
Mid. Fk. Willamette below No. Fk.



Umpqua near Elkton



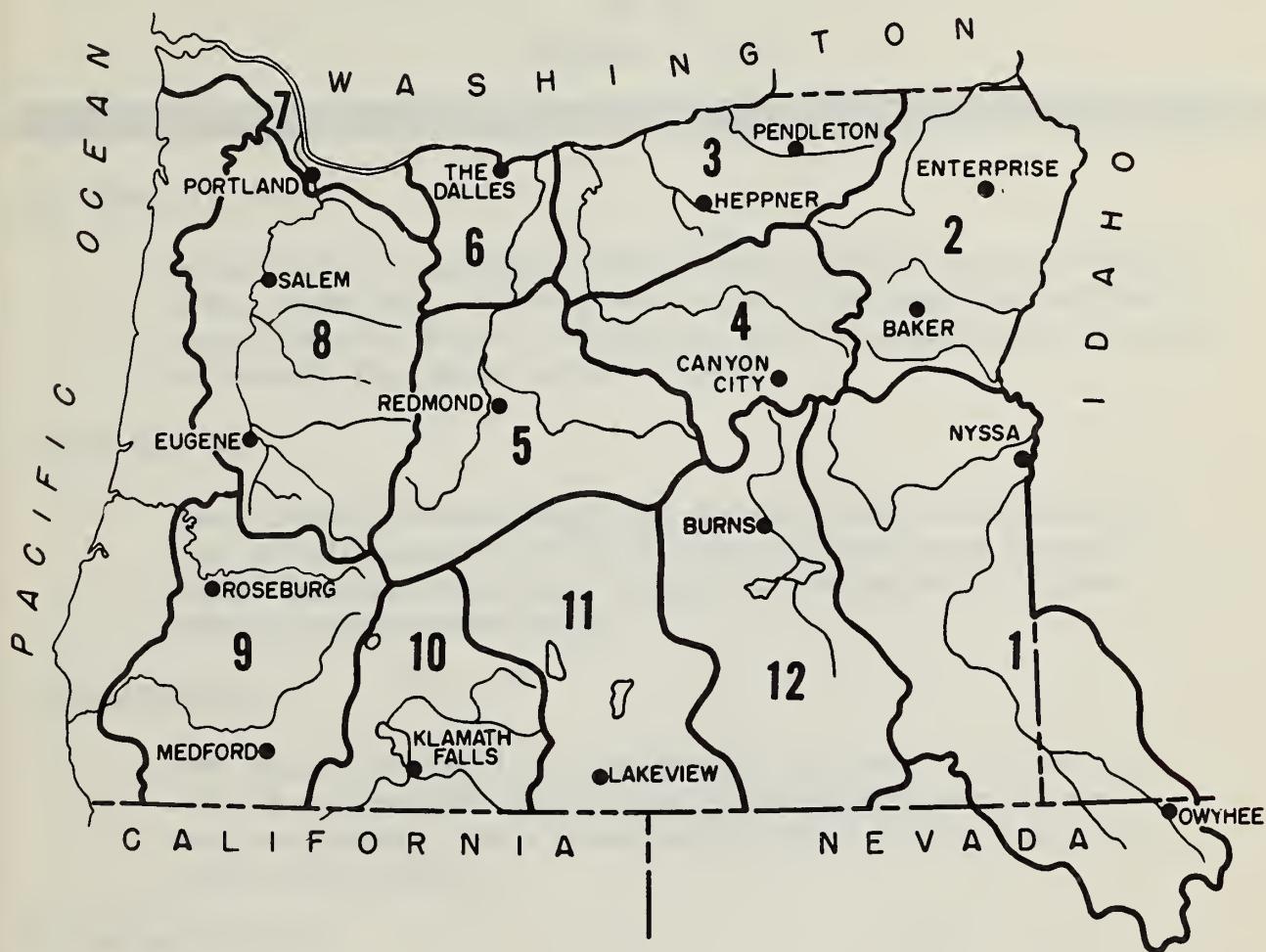
Rogue at Raygold



Upper Klamath Lake net inflow

VALLEY PRECIPITATION in OREGON^a

FEBRUARY 1, 1958

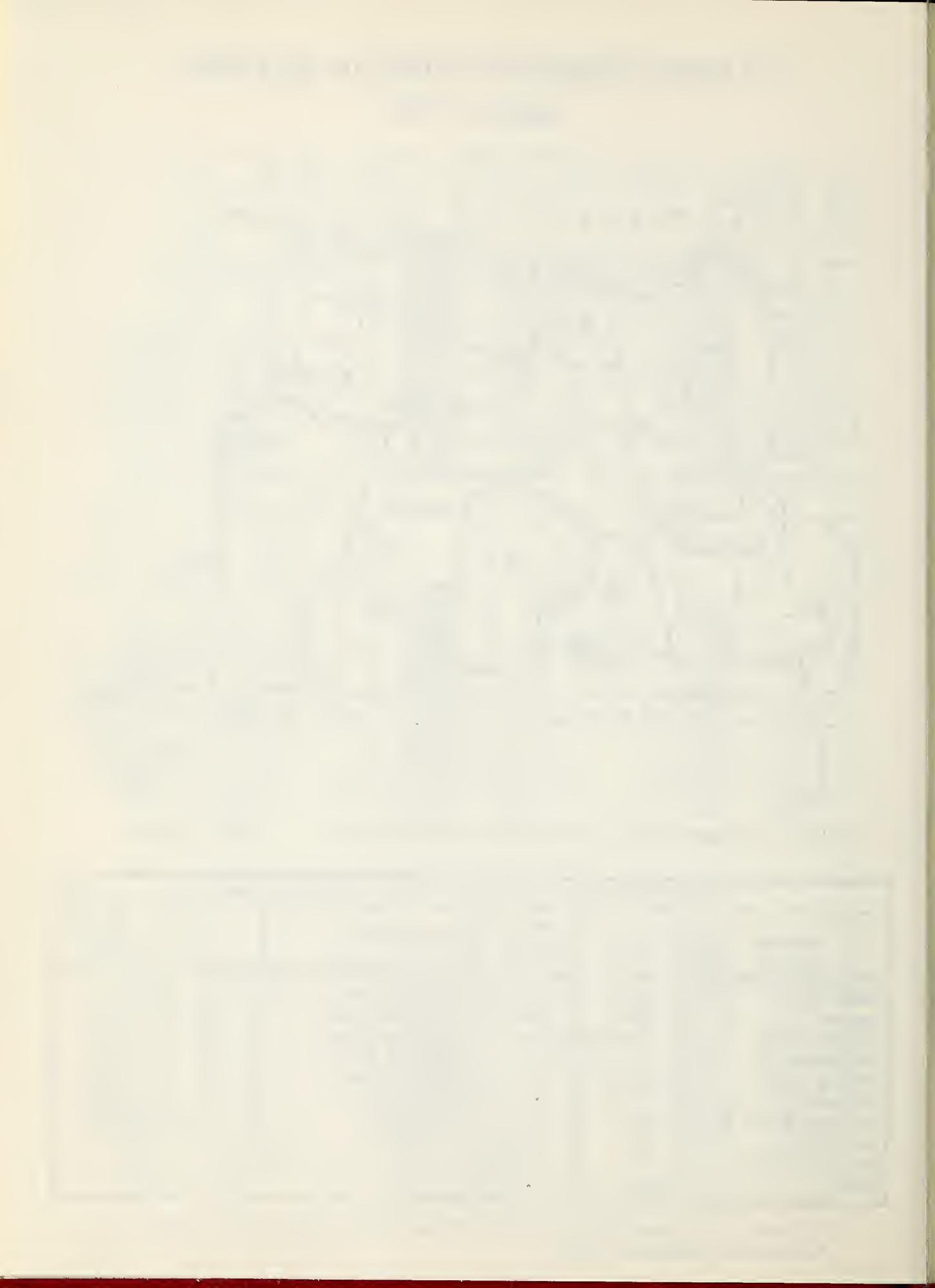


PRECIPITATION as PERCENT of the 1938-52 AVERAGE

| STATION | LAST MONTH | WATER YEAR TO DATE ^b | STATION | LAST MONTH | WATER YEAR TO DATE ^b |
|--------------------|------------|---------------------------------|----------------|------------|---------------------------------|
| Baker Apt. | 532 | 259 | Owyhee (Nev.) | c | |
| Burns | 152 | 120 | Pendleton Apt. | 182 | 123 |
| Canyon City | Station | closed | Portland Apt. | 136 | 84 |
| Enterprise | c | | Redmond Apt. * | 107 | 97 |
| Eugene Apt. | 172 | 126 | Roseburg Apt. | 144 | 118 |
| Heppner | c | . | Salem Apt. | 157 | 102 |
| Klamath Falls Apt. | 133 | 176 | The Dalles | 153 | 113 |
| Lakeview | 131 | 110 | | | |
| Medford Apt. | 195 | 113 | | | |
| Nyssa | 183 | 113 | | | |

^aPreliminary data furnished by the U.S. Weather Bureau. ^bOct. 1 to date. ^cReport delayed.

* As percent of Redmond average.



WATER SUPPLY OUTLOOK OWYHEE, MALHEUR WATERSHEDS OREGON

as of
FEBRUARY 1, 1958

U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE and OREGON AGRICULTURAL EXPERIMENT STATION

GENERAL OUTLOOK

Satisfactory water supplies for irrigated lands in Malheur County are assured unless snowfall and precipitation during February and March are much below normal. Most of the early frost has gone out of watershed soils and conditions are favorable for a normal snow-melt runoff.

SNOW-COVER

Water content of the snow-pack is about twice as great as at this date last year and is 123 percent of the 15 year average. Snow on the Owyhee, Malheur watersheds has already accumulated to 90 percent of the usual peak accumulation for the winter.

SOIL-MOISTURE

Late January rains added significant moisture to watershed soils but mainly in the lower elevations. Soils in the higher elevations, under the snow-pack, are moderately wet with moisture penetration limited to about one foot in many locations.

RESERVOIR STORAGE

The three major irrigation reservoirs contain nearly the same supplies they held on February 1st last year. Agency Valley Reservoir is the only one below normal in present storage.

STREAMFLOW

Forecasted flow of the Owyhee River for the irrigation season is 120 percent average or about the same as last year. The two main forks of the Malheur River should discharge about 116 percent of the 15 year average.

Report prepared by:

W.T. Frost and Manes Barton
U.S. Department of Agriculture, Soil Conservation Service
209 S W Fifth Avenue, Portland, Oregon

WATER SUPPLY OUTLOOK^a

Local water supply is expressed as "Poor", "Fair", "Average" or "Excellent".

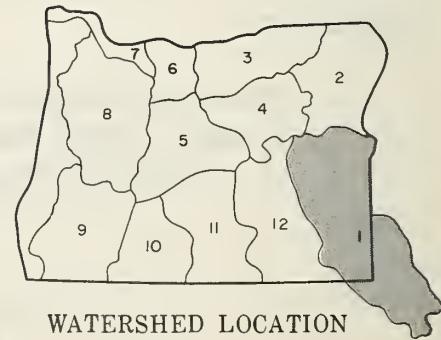
| STREAM or AREA | FLOW PERIOD | | REMARKS |
|---------------------|---------------|-------------|---------|
| | SPRING SEASON | LATE SEASON | |
| Boulder Creek | Excellent | Average | |
| Bully Creek | Average | Average | |
| Cow Creek | Average | Average | |
| Jordan Creek | Excellent | Average | |
| Jordan Valley I.D. | Average | Average | |
| McDermitt Creek | Average | Average | |
| Oregon Canyon Creek | Average | Average | |
| Owyhee Project | Excellent | Average | |
| Sucker Creek | Average | Average | |
| Ten Mile Creek | Average | Average | |
| Vale, Oregon I.D. | Excellent | Average | |
| Warm Springs I.D. | Excellent | Average | |
| Willow Creek | Average | Average | |

STREAMFLOW FORECASTS^c (1,000 Ac. Ft.)

| NO. | FORECAST POINT NAME | FORECAST THIS YEAR | FORECAST PERIOD | NORMAL ^b | |
|------|---|-----------------------|---|-----------------------------------|------------|
| | | | | THIS YEAR AS PERCENT OF NORMAL | |
| 1320 | Malheur near Drewsey | 95 | April - Sept. | 82 | 116 |
| 139 | Malheur North Fork at Beulah ^e | 74 | April - Sept. | 64 | 116 |
| 1234 | Owyhee Reservoir net inflow ^g | 550 d 690 | April - Sept. April - July March - July | 458 440 570 | 120 121 |
| | | | | | |

RESERVOIR STORAGE (1,000 Ac. Ft.)

| RESERVOIR | USABLE CAPACITY | MEASURED (First of Month) | | |
|---------------|--------------------|---------------------------|-----------|---------------------|
| | | THIS YEAR | LAST YEAR | NORMAL ^b |
| Agency Valley | 60.0 | 22.2 | 23.9 | 32.9 |
| Antelope | 36.5 | h | 3.4 | 4.0 |
| Owyhee | 715.0 | 466.8 | 469.6 | 456.4 |
| Warm Springs | 191.0 | 93.8 | 103.4 | 70.9 |

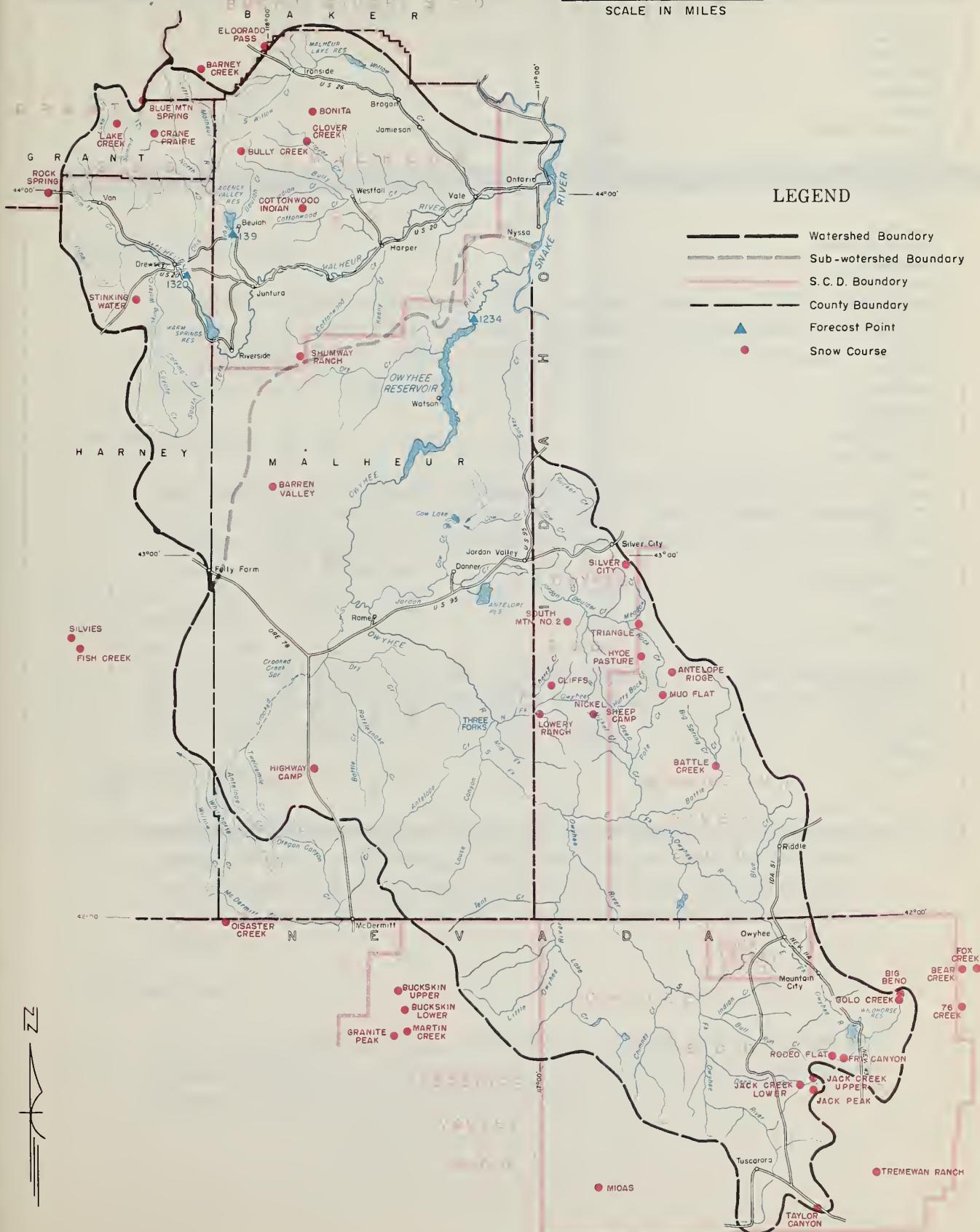


^a Assuming normal meteorological conditions. ^b 1938-'52, 15 year period. ^c Number of years in 1938-'52 period. ^d Not scheduled.

^e Corrected to natural flow. ^f Aerial snow depth gage; water content estimated. ^g From USBR records of inflow. ^h Report delayed.

OWYHEE, MALHEUR WATERSHEDS

10 0 10 20 30
SCALE IN MILES



LEGEND

- Watershed Boundary
- Sub-watershed Boundary
- S.C.D. Boundary
- County Boundary
- ▲ Forecast Point
- Snow Course

Owyhee, Malheur Watersheds

SNOW

| SNOW COURSE | | CURRENT INFORMATION | | | PAST RECORD | | YEARS OF ^c RECORD | |
|--------------------------------|-----------|---------------------|------------------------|------------------------------|------------------------|-----------|---------------------------------|----|
| NAME | ELEVATION | DATE OF SURVEY | SNOW DEPTH (Inches) | WATER CONTENT (Inches) | WATER CONTENT (Inches) | LAST YEAR | NORMAL ^b | |
| Antelope Ridge | 5500 | h | | | | | | |
| Barney Creek | 5950 | d | | | | | | |
| Barren Valley | 4200 | h | | | | | | |
| Battle Creek ^f | 5700 | h | | | | | | |
| Bear Creek | 7800 | h | | | | | | |
| Big Bend | 6700 | 1-31 | 38 | 8.5 | 4.1 | -- | | 4 |
| Blue Mountain Springs | 5900 | 1-28 | 54 | 14.7 | 6.6 | 10.2 | | 14 |
| Banita | 4600 | h | | | | | | |
| Buckskin, Lower | 6700 | h | | | | | | |
| Buckskin, Upper | 7200 | h | | | | | | |
| Bully Creek ^f | 5300 | h | | | | | | |
| Cliffs | 5200 | h | | | | | | |
| Claver Creek | 4100 | 1-29 | 10 | 2.3 | 1.6 | -- | | 0 |
| Cottonwood-Indian ^f | 4320 | h | | | | | | |
| Crane Prairie | 5375 | d | | | | | | |
| Disaster Peak | 6500 | h | | | | | | |
| Eldorado Pass | 4600 | 1-29 | 18 | 3.5 | 1.5 | -- | | 0 |
| Fish Creek | 7900 | d | | | | | | |
| Fox Creek | 6800 | h | | | | | | |
| Fry Canyon | 6700 | 1-31 | 37 | 9.7 | 3.5 | -- | | 3 |
| Gold Creek | 6600 | 1-31 | 31 | 7.3 | 2.9 | -- | | 4 |
| Granite Peak | 7800 | h | | | | | | |
| Highway Camp | 4300 | h | | | | | | |
| Hyde Pasture ^f | 5800 | h | | | | | | |
| Jack Creek, Lower | 6800 | 1-31 | 28 | 6.7 | 2.7 | -- | | 0 |
| Jack Creek, Upper | 7250 | 1-31 | 44 | 11.2 | 6.9 | -- | | 0 |
| Jack Peak | 8420 | h | | | | | | |
| Lake Creek | 5120 | 1-28 | 36 | 9.5 | 5.1 | -- | | 3 |
| Lawry Ranch | 4800 | h | | | | | | |
| Martin Creek | 7200 | h | | | | | | |
| Midas | 5700 | h | | | | | | |
| Mud Flat | 5500 | h | | | | | | |
| Nickel Sheep Camp ^f | 5450 | h | | | | | | |
| Rock Springs | 5100 | 1-28 | 24 | 5.8 | 1.5 | 4.4 | | 15 |
| Rodeo Flat | 6800 | 1-31 | 38 | 10.6 | 3.9 | -- | | 0 |
| Shumway Ranch | 4400 | h | | | | | | |
| Silver City | 6400 | 2-2 | 44 | 12.3 | 10.2 | 10.2 | | 6 |
| Silvies | 6900 | d | | | | | | |
| South Mountain No. 2 | 6340 | 1-25 | 30 | 8.4 | 5.6 | 9.1 | | 12 |
| Stinking Water | 4800 | 1-28 | 18 | 4.6 | 3.3 | 3.6 | | 15 |
| Taylor Canyon | 6200 | 1-31 | 20 | 5.2 | 1.8 | -- | | 0 |
| Tremewan Ranch | 5700 | 1-31 | 10 | 2.1 | 0.8 | -- | | 0 |
| Triangle | 5150 | h | | | | | | |
| 76 Creek | 7100 | 1-31 | 44 | 10.4 | 4.9 | -- | | 0 |

WATER SUPPLY OUTLOOK BURNT, POWDER, PINE, GRANDE RONDE, IMNAHA WATERSHEDS OREGON

as of

FEBRUARY 1, 1958

U.S.DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE and OREGON AGRICULTURAL EXPERIMENT STATION

GENERAL OUTLOOK

Irrigated lands of Northeastern Oregon can look ahead to a satisfactory water supply in 1958. The mountain snow-pack, lying upon well wetted soils, together with reservoired water supplies will provide adequate water for the coming spring and summer.

SNOW-COVER

Water content of the mountain snow-pack averages 157 percent of last year and 120 percent of the February 1 normal. Usually about 65 percent of the total winter's snow is accumulated by this date. This year, however, we already have 81 percent.

SOIL-MOISTURE

Recent mid-winter rains coupled with some thawing of the snow have tended to add more moisture to watershed soils under the snow. These wet soils favor a satisfactory run-off from melting snow.

RESERVOIR STORAGE

Man-made reservoirs contain less water than at this date last year but are above average in total storage. Wallowa Lake now holds 24,500 acre feet compared with the average of 19,400 acre feet. Unity Reservoir on Burnt River is still a bit low but can expect a normal inflow in the summer.

STREAMFLOW

Forecasts for spring and summer streamflow vary from near normal (96%) on the Wallowa to 113 percent on the Grande Ronde, 119 percent on the Powder, and 107 percent on the Burnt River.

Report prepared by

W T Frost and Marnes Barton
U S Department of Agriculture, Soil Conservation Service
209 S W Fifth Avenue, Portland, Oregon

WATER SUPPLY OUTLOOK^a

Local water supply is expressed as "Poor," "Fair," "Average" or "Excellent".

| STREAM or AREA | FLOW PERIOD | | REMARKS |
|---------------------------------|---------------|-------------|---------|
| | SPRING SEASON | LATE SEASON | |
| Alder Slope | Average | Average | |
| Baker Valley | Excellent | Average | |
| Big Creek | Average | Average | |
| Clover Creek | Excellent | Average | |
| Cave | Average | Average | |
| Durkee | Average | Average | |
| Eagle Valley | Average | Average | |
| Elgin | Average | Average | |
| Enterprise - Joseph | Average | Average | |
| Hereford - Bridgeport | Average | Average | |
| Imnaha River | Average | Average | |
| LaGrande - Island City | Excellent | Average | |
| Lostine - Wallowa | Average | Average | |
| North Powder River - Wolf Creek | Excellent | Average | |
| Pine Valley | Average | Average | |
| Powder River - Elk Creek | Excellent | Average | |
| Summerville | Excellent | Average | |
| Sumpter Valley | Excellent | Average | |
| Union - Hat Lake | Average | Average | |
| Unity | Average | Average | |

STREAMFLOW FORECASTS^a (1,000 Ac. Ft.)

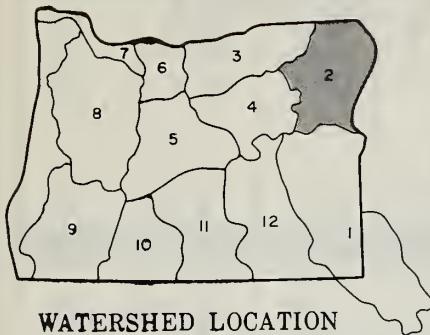
| NO. | FORECAST POINT NAME | FORECAST THIS YEAR | FORECAST PERIOD | THIS YEAR AS PERCENT OF NORMAL ^b | |
|------|--|-----------------------|---------------------------|---|--------------------------------------|
| | | | | NORMAL ^b | THIS YEAR AS PERCENT OF NORMAL |
| I815 | Bear near Wallowa | 66 | April-Sept. | 69 | 96 |
| I43 | Burnt near Hereford ^c | 45 | April-Sept. | 42 | 107 |
| I85 | Catherine near Union | 76 | April-Sept. | 71 | 107 |
| I816 | Grande Ronde at LaGrande | 200 | April-Sept. | 177 | 113 |
| I814 | Hurricane near Joseph | 39 | April-Sept. | 45 | 87 |
| I72 | Imnaha at Imnaha | 275 | April-Sept. | 303 | 91 |
| I810 | Lostine near Lostine | 119 | April-Sept. | 124 | 96 |
| I52 | Powder near Baker | 75 73 | April-Sept. April-July | 63 62 | 119 118 |
| I822 | Wallowa East Fork near Joseph ^d | 10.5 8.5 | April-Sept. April-July | 11.3 9.2 | 93 92 |
| | | | | | |

^a Assuming normal meteorological conditions. ^b 1938-'52, 15 year period. ^c Number of years in 1938-'52 period. ^d Not scheduled.

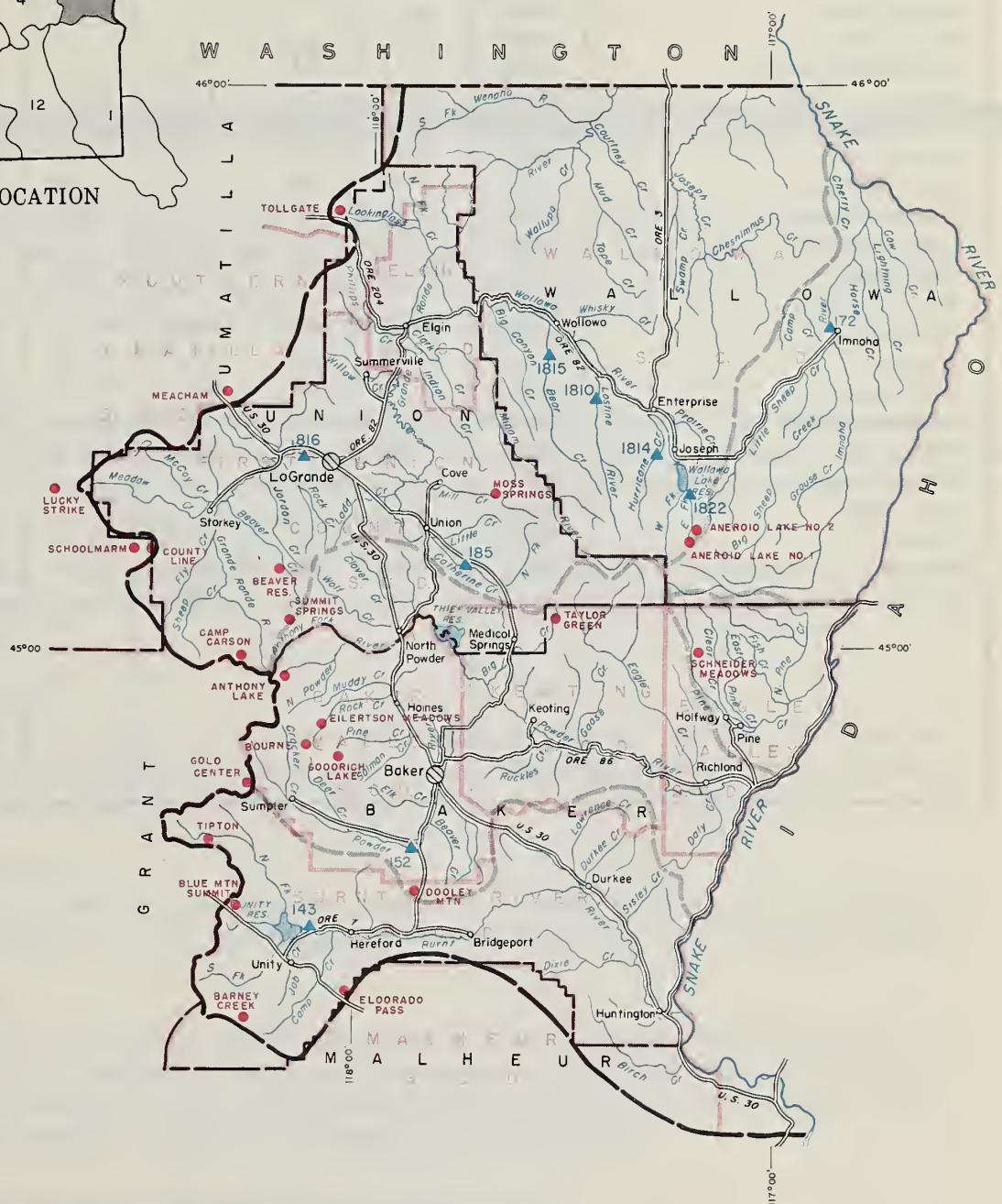
^e Corrected to natural flow. ^f Aerial snow depth gage; water content estimated.

Report delayed.

BURNT, POWDER, PINE, GRANDE RONDE, IMNAHA WATERSHEDS



10 0 10 20 30
SCALE IN MILES



RESERVOIR STORAGE (1,000 Ac. Ft.)

| RESERVOIR | USABLE CAPACITY | MEASURED (First of Month) | | |
|----------------------------|-----------------|---------------------------|-----------|---------------------|
| | | THIS YEAR | LAST YEAR | NORMAL ^b |
| Unity | 252 | 5.8* | 9.4 | 8.3 |
| Wallowa Lake | 40.9 | 24.5 | 33.4 | 19.4 |
| ^a Dec. 31, 1957 | | | | |

LEGEND

- Watershed Boundary
- Sub-watershed Boundary
- S. C. D. Boundary
- County Boundary
- ▲ Forecast Point
- Snow Course

Burnt, Powder, Pine, Grande Ronde, Imnaha Watersheds

SNOW

| SNOW COURSE | | CURRENT INFORMATION | | | PAST RECORD | | YEARS OF ^c RECORD |
|----------------------|-----------|---------------------|------------------------|------------------------------|------------------------|---------------------|---------------------------------|
| | | DATE OF SURVEY | SNOW DEPTH (Inches) | WATER CONTENT (Inches) | WATER CONTENT (Inches) | NORMAL ^b | |
| NAME | ELEVATION | | | | | | |
| Aneroid Lake No. 1 | 7480 | 1-25 | 73 | 21.8 | 18.0 | 22.4 | 15 |
| Aneroid Lake No. 2 | 7000 | 1-26 | 56 | 18.4 | 14.5 | 19.2 | 11 |
| Anthony Lake | 7125 | 1-23 | 58 | 17.7 | 15.4 | 19.1 | 12 |
| Borney Creek | 5950 | d | | | | | |
| Beaver Reservoir | 5340 | g | | | | | |
| Blue Mountain Summit | 5098 | 1-27 | 33 | 8.2 | 4.2 | 6.1 | 15 |
| Bourne | 5800 | 1-28 | 57 | 13.9 | 10.3 | 9.6 | 11 |
| Comp Corson | 5970 | 1-22 | 32 | 6.9 | 6.4 | 7.3 | 10 |
| County Line | 4800 | 1-30 | 24 | 6.2 | 3.8 | - - | 1 |
| Dooley Mountain | 5430 | 1-21 | 30 | 7.6 | 2.4 | 6.6 | 14 |
| Eilertson Meadows | 5400 | 1-25 | 42 | 11.4 | 9.1 | 8.1 | 13 |
| Eldorado Pass | 4600 | 1-29 | 18 | 3.5 | 1.5 | - - | 0 |
| Gold Center | 5340 | 1-29 | 50 | 11.8 | 6.1 | 8.4 | 13 |
| Goodrich Lake | 6775 | g | | | | | |
| Lucky Strike | 5050 | 1-30 | 47 | 12.5 | 4.2 | 8.4 | 13 |
| Meochem | 4300 | 1-28 | 37 | 10.7 | 3.8 | 6.1 | 15 |
| Moss Springs | 5850 | 1-21 | 62 | 18.1 | 18.5 | 15.5 | 15 |
| Schneider Meadows | 5400 | 1-26 | 82 | 22.8 | 10.5 | 20.5 | 15 |
| Schoolmorm | 4775 | 1-30 | 22 | 5.6 | 2.9 | 3.0 | 5 |
| Summit Springs | 6000 | d | | | | | |
| Toylor Green | 5740 | d | | | | | |
| Tipton | 5100 | 1-27 | 40 | 10.4 | 3.3 | 7.4 | 12 |
| Tollgate | 5070 | 1-28 | 74 | 24.4 | 12.4 | 16.9 | 15 |

WATER SUPPLY OUTLOOK

UMATILLA, WALLA WALLA, WILLOW, ROCK, LOWER JOHN DAY WATERSHEDS

OREGON

as of
FEBRUARY 1, 1958

U.S.DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE and OREGON AGRICULTURAL EXPERIMENT STATION

GENERAL OUTLOOK

The 1958 water supply outlook for Umatilla, Morrow and Gilliam counties is very good with all streams now expected to produce above normal flows during the irrigation season. In fact, if only average accumulation of snow continues, the discharge of streams in this area should equal 1956 streamflow amounts.

SNOW-COVER

Results of surveys on five snow courses indicate the snow-cover has a water content equal to the normal peak winter accumulation. Usually this peak is reached sometime between March 1st and April 1st. Water content of snow is 2-1/2 times greater than at this time last year and is 50 percent greater than the average.

The Lucky Strike snow course with 12.5 inches of water has had only one higher reading on February 1st in 19 years. That reading was in 1943 when 13.5 inches of water were recorded.

SOIL-MOISTURE

Watershed soils under the mountain snow-pack are very well wetted. Moisture has penetrated down to three feet in many places. These wet soils will favor a higher percentage of run-off when snow melts.

RESERVOIR STORAGE

Reservoird water supplies are greater than at this date last year. Also the current storage figures in both Cold Springs and McKay Reservoirs are a bit above average.

STREAMFLOW

Forecasts for spring and summer streamflow in this area are all above average. The Umatilla, as measured at Pendleton, is expected to discharge 117 percent of the 1938-52 average for the April-September period. Flow of the Walla Walla, South Fork near Milton, is forecast at 104 percent of the average.

Streamflow has been above normal since October 1st.

Report prepared by
W T Frost and Manes Burton
U S Department of Agriculture, Soil Conservation Service
209 S W Fifth Avenue, Portland, Oregon

WATER SUPPLY OUTLOOK^a

Local water supply is expressed as "Poor", "Fair", "Average" or "Excellent".

| STREAM or AREA | FLOW PERIOD | | REMARKS |
|-----------------------------------|---------------|-------------|--|
| | SPRING SEASON | LATE SEASON | |
| Birch Creek | Excellent | Average | |
| Butter Creek | Excellent | Average | |
| Dry Creek | Average | Average | |
| Dugger Creek | Average | Average | |
| Johnson Creek | Average | Average | |
| McKay Creek | Excellent | Average | |
| Mill Cr. | Average | Average | |
| Mud Creek | Average | Average | |
| Pine Creek | Average | Average | |
| Rhea Creek | Excellent | Average | |
| Umatilla River(Cold Springs Res.) | Excellent | Average | |
| Umatilla River, Main | Excellent | Average | |
| Umatilla River (McKay Res.) | Average | Average | |
| Walla Walla River, Little | Average | Average | |
| Walla Walla River, Main | Average | Average | |
| Walla Walla River, North Fork | Average | Average | |
| Walla Walla River, South Fork | Average | Average | |
| Willow Creek | Excellent | Average | |
| | | | { Stored water in McKay Reservoir is better than last year but still quite a bit below normal for this date. |

STREAMFLOW FORECASTS^a (1,000 Ac. Ft.)

| NO. | FORECAST POINT NAME | FORECAST THIS YEAR | FORECAST PERIOD | NORMAL ^b | | THIS YEAR AS PERCENT OF NORMAL |
|------|-------------------------------------|-----------------------|---------------------------|---------------------|------------|--------------------------------------|
| | | | | APRIL-SEPT. | APRIL-JULY | |
| 2213 | McKay near Pilot Rock | 30 29 | April-Sept. April-July | 28 | 28 | 107 104 |
| 2236 | Umatilla near Gibbon | 100 | April-Sept. | 87 | 87 | 115 |
| 223 | Umatilla at Pendleton | 195 185 | April-Sept. April-July | 167 | 155 | 117 119 |
| 214 | Walla Walla, South Fork near Milton | 74 61 | April-Sept. April-July | 71 | 58 | 104 105 |
| | | | | | | |

SNOW

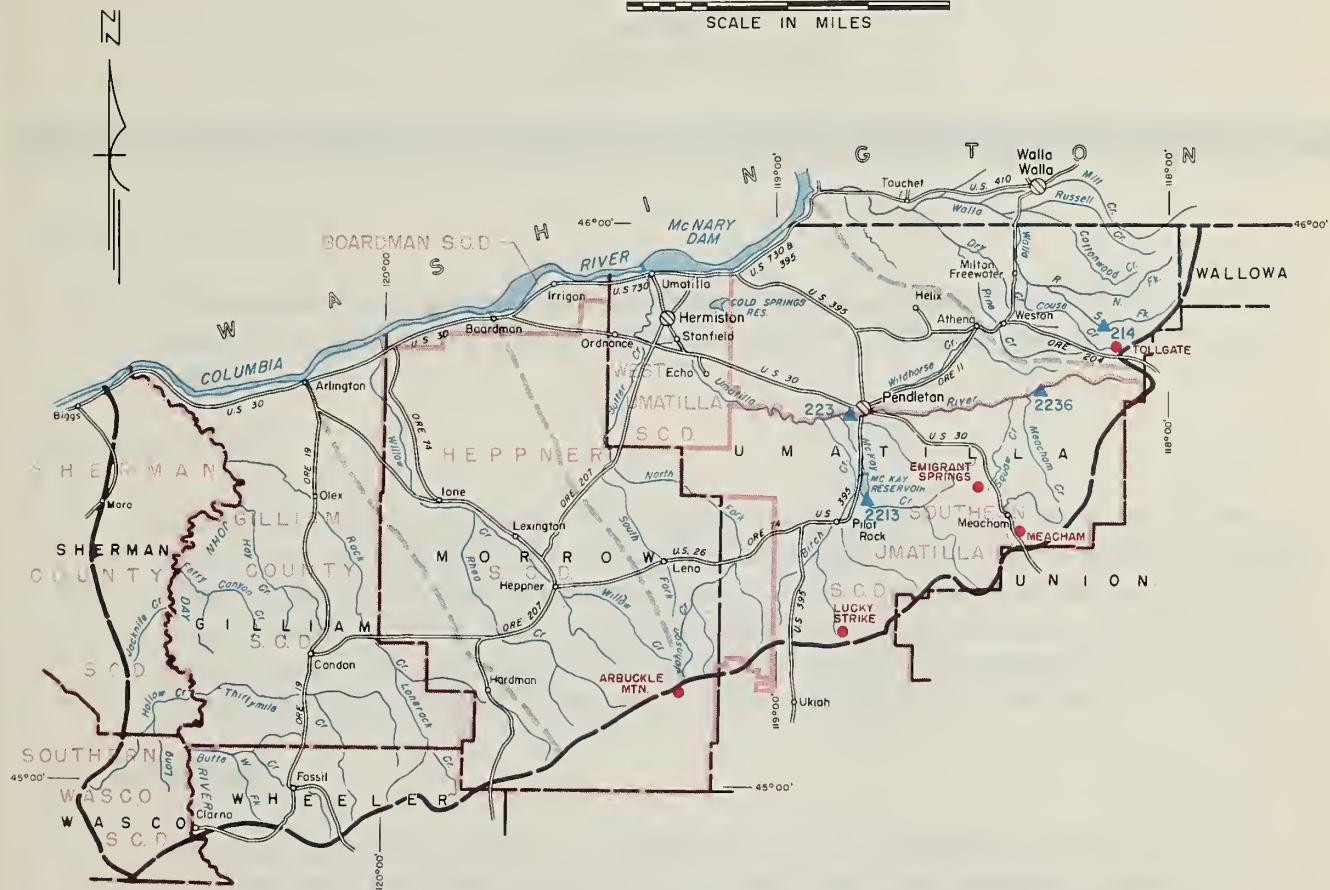
| SNOW COURSE NAME | CURRENT INFORMATION | | | | PAST RECORD | | YEARS OF RECORD | |
|---------------------|---------------------|-------------------|------------------------|------------------------------|------------------------|---------------------|--------------------|--|
| | ELEVATION | DATE OF SURVEY | SNOW DEPTH (Inches) | WATER CONTENT (Inches) | WATER CONTENT (Inches) | | | |
| | | | | | LAST YEAR | NORMAL ^b | | |
| Arbuckle Mountain | 5400 | 1-29 | 43 | 12.8 | 3.4 | 7.6 | 14 | |
| Emigrant Springs | 3925 | 1-28 | 30 | 8.8 | 2.6 | 5.3 | 15 | |
| Lucky Strike | 5050 | 1-30 | 47 | 12.5 | 4.2 | 8.4 | 13 | |
| Meacham | 4300 | 1-28 | 37 | 10.7 | 3.8 | 6.1 | 15 | |
| Tollgate | 5070 | 1-28 | 74 | 24.4 | 12.4 | 16.9 | 15 | |

^a Assuming normal meteorological conditions. ^b 1938-'52, 15 year period. ^c Number of years in 1938-'52 period. ^d Not scheduled.

^e Corrected to natural flow. ^f Aerial snow depth gage; water content estimated.

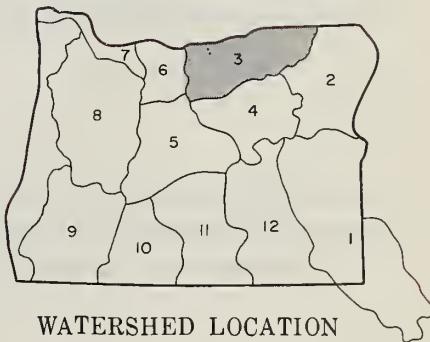
UMATILLA, WALLA WALLA, WILLOW, ROCK, LOWER JOHN DAY WATERSHEDS

10 0 10 20 30
SCALE IN MILES



LEGEND

- Watershed Boundary
- Sub-watershed Boundary
- S.C.D. Boundary
- County Boundary
- ▲ Forecast Point
- Snow Course



WATERSHED LOCATION

RESERVOIR STORAGE (1,000 Ac. Ft.)

| RESERVOIR | USABLE CAPACITY | MEASURED (First of Month) | | |
|--------------|-----------------|---------------------------|-----------|----------|
| | | THIS YEAR | LAST YEAR | NORMAL b |
| Cold Springs | 50.0 | 34.0 | 22.0 | 29.6 |
| Mc Kay | 74.0 | 18.1* | 17.1 | 34.5 |

* Dec. 31, 1957

Umatilla, Walla Walla, Willow, Rock, Lower John Day Watersheds

"The Conservation of Water begins with the Snow Survey"

WATER SUPPLY OUTLOOK UPPER JOHN DAY WATERSHEDS OREGON

as of
FEBRUARY 1, 1958

U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE and OREGON AGRICULTURAL EXPERIMENT STATION

GENERAL OUTLOOK

The outlook for irrigation water supplies in the Upper John Day watersheds is very good for 1958 assuming a near average accumulation of snow during February and March.

SNOW-COVER

Surveys on 15 snow courses indicate water content of the snow is nearly double that of last year on February 1st and is 28 percent greater than average. Normally about 65 percent of the total winter's snow has accumulated by February 1st. This year the accumulation has already reached 88 percent of the usual winter's total. Water content of snow at the Olive Lake snow course has increased to 17.3 inches compared with 11.4 inches last year and an average of 11.4 inches.

SOIL-MOISTURE

Moisture penetration in the soils under the snow is satisfactory in the vicinity of Ukiah and Starr Ridge but is still only fair in the Blue Mountain Summit area and in the Ochoco Mountains. Well wetted soils under the snow-pack will favor a better run-off from snow-melt.

STREAMFLOW

Normal or above normal streamflow is forecast for all streams in this area. The main John Day River at Prairie City is forecast to discharge 108 percent average for the April-September period. Other streams will discharge similarly a bit above normal.

Report prepared by

W. T. Frost and Myles Burton
U. S. Department of Agriculture, Soil Conservation Service
209 S W Fifth Avenue, Portland, Oregon

WATER SUPPLY OUTLOOK

Local water supply is expressed as "Poor", "Fair", "Average" or "Excellent".

| STREAM or AREA | FLOW PERIOD | | REMARKS |
|----------------------------|---------------|-------------|---------|
| | SPRING SEASON | LATE SEASON | |
| Beech Creek | Excellent | Average | |
| Beech Creek-Fox-Long Creek | Excellent | Average | |
| Bridge-Mountain Creeks | Average | Average | |
| Camas Creek | Excellent | Average | |
| Cherry Creek | Average | Average | |
| Indian-Pine Creeks | Average | Average | |
| John Day River, Main Fork | Excellent | Average | |
| John Day River, Mid. Fork | Excellent | Average | |
| Jahn Day River, North Fark | Excellent | Average | |
| John Day River, South Fark | Average | Average | |
| Manument-Kimberly | Excellent | Average | |
| Strawberry Creek | Average | Average | |

STREAMFLOW FORECASTS ^a (1,000 Ac. Ft.)

| NO. | FORECAST POINT NAME | FORECAST THIS YEAR | FORECAST PERIOD | NORMAL ^b | | THIS YEAR AS PERCENT OF NORMAL |
|------|--------------------------------|-----------------------|---------------------------|---------------------|--------------------------------------|--------------------------------------|
| | | | | NORMAL | THIS YEAR AS PERCENT OF NORMAL | |
| 2415 | John Day at Prairie City | 54 49 | April-Sept. April-July | 50 45 | 108 109 | |
| 2433 | Jahn Day, Mid. Fark at Ritter | 134 | April-Sept. | 122 | 110 | |
| 2432 | Jahn Day, Narth Fark near Dale | 270 | April-Sept. | 248 | 109 | |
| 2434 | Strawberry near Prairie City | 8.5 | April-Sept. | 8.3 | 102 | |

SNOW

| SNOW COURSE NAME | CURRENT INFORMATION | | | PAST RECORD | | YEARS OF RECORD | |
|-----------------------|---------------------|------------------------|------------------------------|------------------------|---------------------|--------------------|----|
| | DATE OF SURVEY | SNOW DEPTH (Inches) | WATER CONTENT (Inches) | WATER CONTENT (Inches) | | | |
| | | | | LAST YEAR | NORMAL ^b | | |
| Anthony Lake | 7125 | 1-23 | 58 | 17.7 | 15.4 | 19.1 | 12 |
| Arbuckle Mountain | 5400 | 1-29 | 43 | 12.8 | 3.4 | 7.6 | 14 |
| Beech Creek Summit | 4800 | 1-28 | 20 | 4.6 | 2.3 | 4.3 | 15 |
| Blue Mountain Springs | 5900 | 1-28 | 54 | 14.7 | 6.6 | 10.2 | 14 |
| Blue Mauntain Summit | 5098 | 1-27 | 33 | 8.2 | 4.2 | 6.1 | 15 |
| Derr | 5670 | 1-27 | 27 | 6.8 | 3.6 | 6.7 | 15 |
| Dixie Springs | 6650 | d | | | | | |
| Gold Center | 5340 | 1-29 | 50 | 11.8 | 6.1 | 8.4 | 13 |
| Izee Summit | 5293 | 1-27 | 29 | 7.2 | 3.3 | 6.0 | 15 |
| Lucky Strike | 5050 | 1-30 | 47 | 12.5 | 4.2 | 8.4 | 13 |
| Marks Creek | 4540 | 1-24 | 15 | 3.7 | 2.5 | 3.9 | 15 |
| Ochaca Meadows | 5200 | 1-28 | 32 | 9.1 | 4.1 | 7.9 | 14 |
| Olive Lake | 6000 | 1-27 | 55 | 17.3 | 11.4 | 11.4 | 15 |
| Schaalmarm | 4775 | 1-30 | 22 | 5.6 | 2.9 | 3.0 | 5 |
| Snaw Mauntain | 6300 | d | | | | | |
| Starr Ridge | 5156 | 1-27 | 22 | 4.8 | 2.1 | 4.3 | 15 |
| Tiptan | 5100 | 1-27 | 40 | 10.4 | 3.3 | 7.4 | 12 |

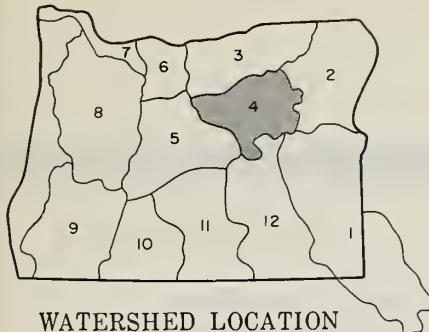
^a Assuming normal meteorological conditions. ^b 1938-'52, 15 year period. ^c Number of years in 1938-'52 period. ^d Not scheduled.

e Corrected to natural flow. f Aerial snow depth gage; water content estimated.

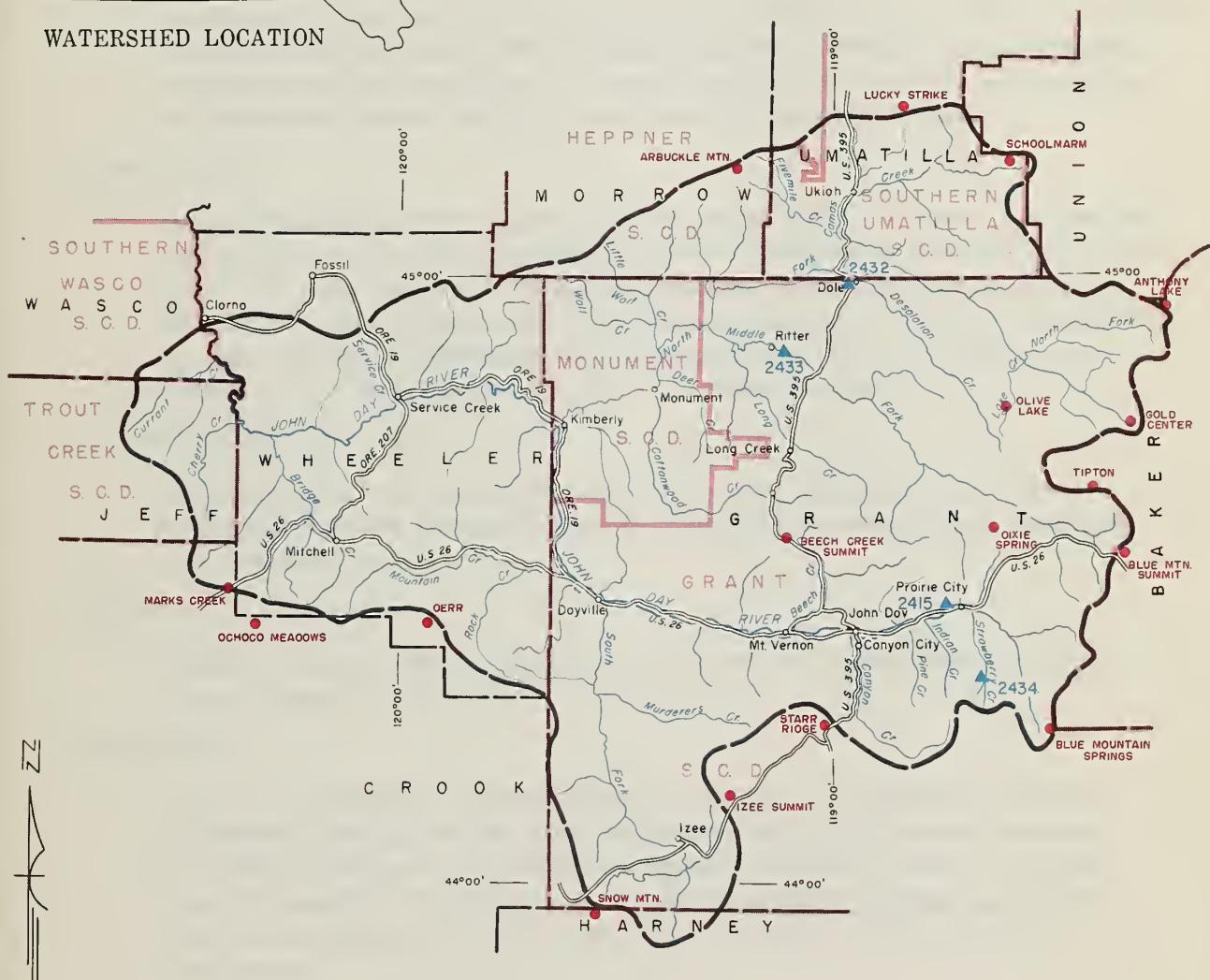
UPPER JOHN DAY WATERSHEDS

10 0 10 20 30

 SCALE IN MILES



WATERSHED LOCATION



LEGEND

The legend includes five entries: 'Watershed Boundary' with a thick black line, 'Sub-watershed Boundary' with a thin grey line, 'S. C. D. Boundary' with a thin red line, 'County Boundary' with a thick black line, 'Forecast Point' with a blue triangle symbol, and 'Snow Course' with a red circle symbol.

Upper John Day Watersheds

"The Conservation of Water begins with the Snow Survey"

WATER SUPPLY OUTLOOK UPPER DESCHUTES, CROOKED WATERSHEDS OREGON

as of

FEBRUARY 1, 1958

U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE and OREGON AGRICULTURAL EXPERIMENT STATION

GENERAL OUTLOOK

Satisfactory water supplies for irrigated lands of Deschutes, Crook, and Jefferson counties seem assured for 1958 if average snowfall continues to accumulate in watersheds serving these areas. A careful analysis of snowfall, soil-moisture, and reservoird water supplies points toward a favorable season.

SNOW-COVER

Surveys made on 18 snow courses indicate water content of snow is 26 percent greater than average and about double that of last year at this date. Surveyors found 103 inches of snow at Irish-Taylor Lakes. Water content of this snow was 32.9 inches compared with 17.2 inches a year ago. Over on Crooked River the snow at Ochoco Meadows was 32 inches deep. This snow had a water content of 9.1 inches compared with 4.1 inches last year.

SOIL-MOISTURE

Watershed soils lying under the snow-pack are all moderately well wetted. Additional moisture has been added to these soils by recent storms producing rain instead of snow.

RESERVOIR STORAGE

Reservoird water supplies are all above normal and the outlook for further storage is good in all cases.

STREAMFLOW

Forecasts of spring and summer streamflow indicate an expected discharge 103 percent average for Deschutes at Benham Falls, 106 percent average for Tumalo Creek and 110 percent for Squaw Creek near Sisters. Crooked River is forecast at 97 percent average for the April-September period and a 96 percent figure has been set for inflow to Ochoco Reservoir for the same period.

Report prepared by

| |
|--|
| W. T. Frast and Manes Barton |
| U. S. Department of Agriculture, Soil Conservation Service |
| 209 S W Fifth Avenue, Portland, Oregon |

WATER SUPPLY OUTLOOK^a

Local water supply is expressed as "Poor", "Fair", "Average" or "Excellent".

| STREAM or AREA | FLOW PERIOD | | REMARKS |
|----------------------|---------------|-------------|---------|
| | SPRING SEASON | LATE SEASON | |
| Arnold I. D. | Average | Average | |
| Bear Creek | Average | Average | |
| Beaver Creek | Average | Average | |
| Camp Creek | Average | Average | |
| Central Oregon I. D. | Excellent | Average | |
| Crooked River | Average | Average | |
| Deschutes River | Excellent | Average | |
| Hay-Trout Creeks | Average | Average | |
| Lone Pine I. D. | Average | Average | |
| Mill Creek | Average | Average | |
| North Unit I. D. | Excellent | Average | |
| Ochoco Creek | Average | Average | |
| Ochoco I. D. | Average | Average | |
| Sisters I. D. | Excellent | Average | |
| Snow Creek I. D. | Average | Average | |
| Squaw Creek I. D. | Excellent | Average | |
| Swalley Ditch | Excellent | Average | |
| Tumalo Project | Excellent | Average | |
| Walker Basin I. D. | Average | Average | |

STREAMFLOW FORECASTS^a (1,000 Ac. Ft.)

| NO. | NAME | FORECAST POINT | FORECAST THIS YEAR | FORECAST PERIOD | NORMAL ^b | THIS YEAR AS PERCENT OF NORMAL |
|-------|--|----------------|--------------------|------------------|---------------------|--------------------------------|
| | | | | | | |
| 3220A | Crane Prairie Reservoir net inflow | 136 | April - Sept. | 121 | 112 | |
| 323 | Crescent at Crescent Lake ^c | 18 | April - Sept. | 21 | 86 | |
| 342 | Crooked near Post | 120 | April - Sept. | 124 ^d | 97 | |
| 317 | Deschutes at Benham Falls ^e | 525 | April - Sept. | 511 | 103 | |
| | | 360 | April - July | 346 | 104 | |
| 3225 | Deschutes below Snow Creek | 72 | April - Sept. | 60 | 120 | |
| 314 | Deschutes, Little near Lapine ^e | 78 | April - Sept. | 90 | 87 | |
| | | 70 | April - July | 79 | 89 | |
| 3421 | Ochoco Reservoir net inflow | 27 | April - Sept. | 28 | 96 | |
| 3212 | Odell near Crescent | 27 | April - Sept. | 29 | 93 | |
| 335 | Squaw near Sisters | 54 | April - Sept. | 49 | 110 | |
| 338A | Tumalo near Bend ^e | 51 | April - Sept. | 48 | 106 | |

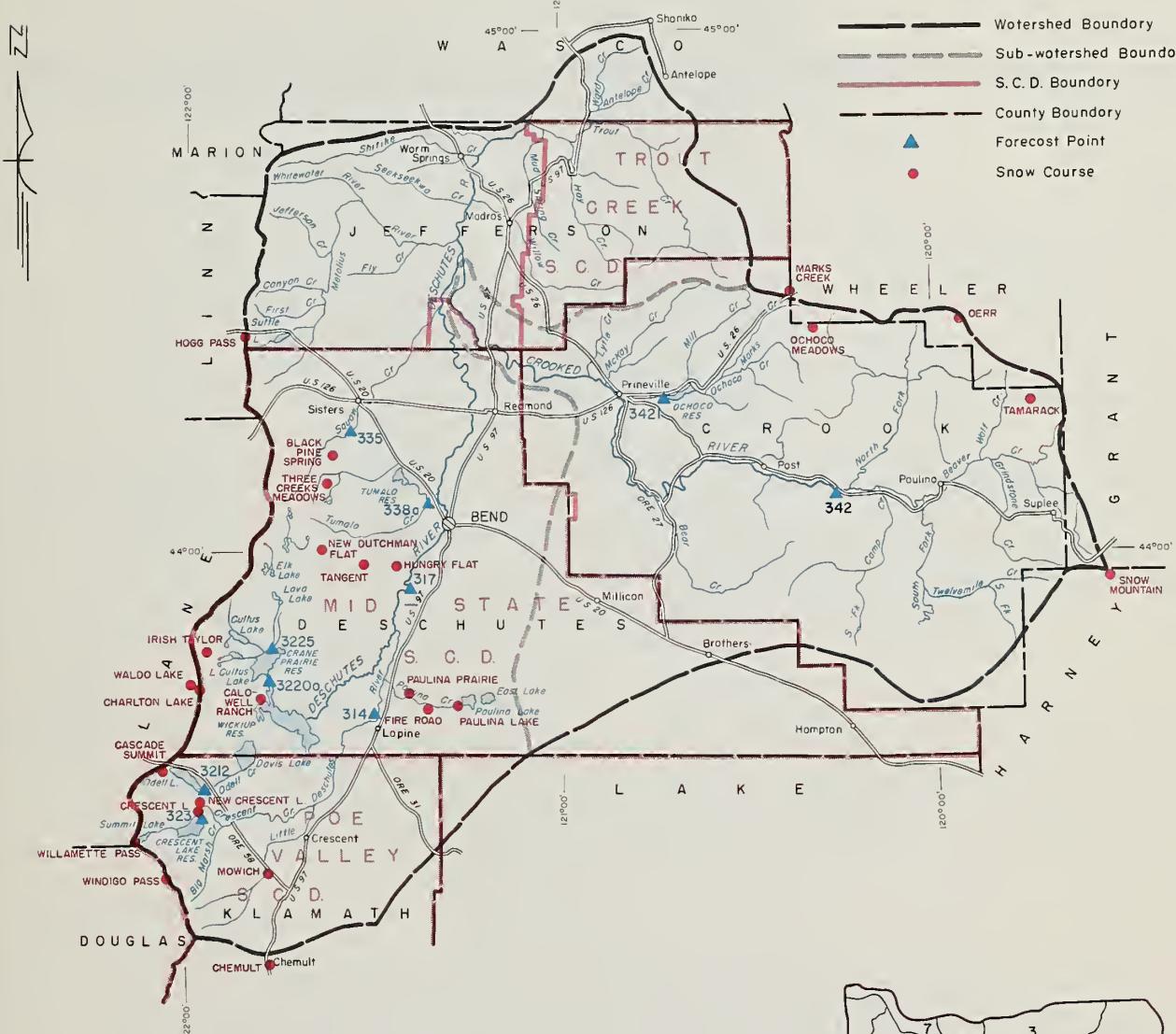
^a Assuming normal meteorological conditions. ^b 1938-'52, 15 year period. ^c Number of years in 1938-'52 period. ^d Not scheduled.

^e Corrected to natural flow. ^f Aerial snow depth gage; water content estimated. ^g 1938-39 excepted. ^h Report delayed.

UPPER DESCHUTES, CROOKED WATERSHEDS

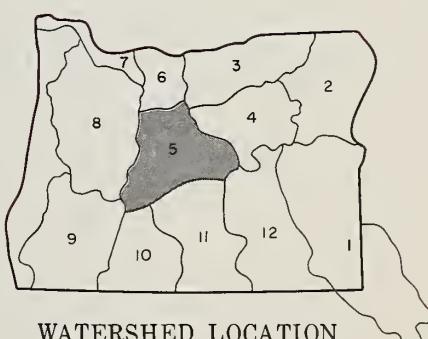
A horizontal scale bar with tick marks every 2 units. The labels are 10, 0, 10, 20, and 30. Below the scale bar, the text "SCALE IN MILES" is centered.

LEGEND



RESERVOIR STORAGE (1,000 Ac. Ft.)

| RESERVOIR | USABLE CAPACITY | MEASURED (First of Month) | | |
|---------------|--------------------|---------------------------|-----------|---------------------|
| | | THIS YEAR | LAST YEAR | NORMAL ^b |
| Crane Prairie | 55.3 | 50.8 | 55.0 | 34.1 |
| Crescent Lake | 68.0 | 48.9 | 64.1 | 39.8 |
| Ochoco | 46.0 | 24.7 | 24.4 | 18.9 |
| Wickiup | 2000 | 175.7 | 200.0 | 95.3 |



WATERSHED LOCATION

Upper Deschutes, Crooked Watersheds

SNOW

| SNOW COURSE | | CURRENT INFORMATION | | | PAST RECORD | | YEARS OF RECORD |
|----------------------|------|---------------------|---------------------|------------------------|------------------------|-----------|-----------------|
| | | DATE OF SURVEY | SNOW DEPTH (Inches) | WATER CONTENT (Inches) | WATER CONTENT (Inches) | LAST YEAR | |
| Black Pine Spring | 4600 | 1-20 | 14 | 4.6 | 1.3 | -- | 1 |
| Caldwell Ranch | 4400 | 1-30 | 35 | 10.4 | 3.4 | 8.0 | 8 |
| Cascade Summit | 4880 | 1-23 | 60 | 20.4 | 15.0 | 20.7 | 15 |
| Charlton Lake | 5750 | 1-29 | 74 | 24.4 | 10.3 | 13.2 | 6 |
| Chemult | 4760 | 1-27 | 34 | 9.5 | 4.7 | 8.5 | 15 |
| Crescent Lake | 4760 | h | | | | | |
| Derr | 5670 | 1-27 | 27 | 6.8 | 3.6 | 6.7 | 15 |
| Fire Road | 5050 | 1-23 | 22 | 6.0 | 2.4 | -- | 0 |
| Hogg Pass | 4755 | 1-28 | 91 | 34.7 | 20.2 | 27.4 | 15 |
| Hungry Flat | 4400 | 1-21 | 20 | 7.2 | 3.0 | -- | 1 |
| Irish-Taylor | 5500 | 1-30 | 103 | 32.9 | 17.2 | -- | 1 |
| Marks Creek | 4540 | 1-24 | 15 | 3.7 | 2.5 | 3.9 | 15 |
| Mowich | 4700 | h | | | | | |
| New Crescent Lake | 4800 | h | | | | | |
| New Dutchman Flat | 6400 | 1-21 | 91 | 34.5 | 24.0 | -- | 3 |
| Ochoco Meadows | 5200 | 1-28 | 32 | 9.1 | 4.1 | 7.9 | 14 |
| Paulina Lake | 6330 | 1-23 | 45 | 14.5 | 10.4 | -- | 0 |
| Paulina Prairie | 4285 | 1-23 | T | T | 2.2 | -- | 0 |
| Snow Mountain | 6300 | d | | | | | |
| Tamarack | 4800 | d | | | | | |
| Tangent | 5400 | 1-21 | 55 | 17.4 | 6.6 | -- | 1 |
| Three Creeks Meadows | 5600 | 1-20 | 44 | 16.6 | 4.5 | 11.2 | 13 |
| Waldo Lake | 5500 | 1-29 | 72 | 24.1 | 12.9 | 14.6 | 6 |
| Willamette Pass | 5600 | h | | | | | |
| Windigo Pass | 5800 | h | | | | | |

WATER SUPPLY OUTLOOK HOOD, MILE CREEKS, LOWER DESCHUTES WATERSHEDS OREGON

as of

FEBRUARY 1, 1958

U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE and OREGON AGRICULTURAL EXPERIMENT STATION

GENERAL OUTLOOK

Adequate irrigation water supplies for Hood River Valley and Wasco County lands are assured if snowfall and precipitation during February and March continue near normal. The smaller streams, heading in moderate or low elevation watersheds, need additional snow to assure satisfactory water supplies.

SNOW-COVER

Water content of the mountain snow-pack is nearly three times greater than February 1st last year. Total snow-cover averages 91 percent of the 15 year normal. Low elevation snow is still below normal.

SOIL-MOISTURE

All available evidence indicates the snow-pack lies on a soil mantle that is moderately well wetted. This favors snow-melt runoff.

STREAMFLOW

Forecasts for Hood River during the irrigation season show that the discharge will be about 109 percent of the 15 year normal. Discharge of the White River is also set for 109 percent average. Flow of Mill Creek, Mile Creeks, and Badger, Rock, and Gate Creeks is expected to be about average.

Report prepared by

W T Frost and Manes Barton
U S Department of Agriculture, Soil Conservation Service
209 S W Fifth Avenue, Portland, Oregon

WATER SUPPLY OUTLOOK^a

Local water supply is expressed as "Poor", "Fair", "Average" or "Excellent".

| STREAM or AREA | FLOW PERIOD | | REMARKS |
|----------------------------|---------------|-------------|---------|
| | SPRING SEASON | LATE SEASON | |
| Aldridge Ditch | Average | Average | |
| Badger Creek | Average | Average | |
| Dee I. D. | Average | Average | |
| East Fork I. D. | Excellent | Average | |
| Farmers I. D. | Excellent | Average | |
| Glacier I. D. | Average | Average | |
| Hood River | Excellent | Average | |
| Juniper Flat | Average | Average | |
| Middle Fork I. D. | Excellent | Average | |
| Mile Creek | Average | Average | |
| Mill Creek | Average | Average | |
| Mount Hood I. D. | Average | Average | |
| Rock-Gate-Threemile Creeks | Average | Average | |
| Tygh Creek | Average | Average | |
| White River | Excellent | Average | |

STREAMFLOW FORECASTS^a (1,000 Ac. Ft.)

| NO. | NAME | FORECAST POINT | FORECAST THIS YEAR | FORECAST PERIOD | NORMAL ^b | THIS YEAR AS PERCENT OF NORMAL |
|------|-----------------------------------|----------------|--------------------|-----------------|---------------------|--------------------------------|
| | | | | | | |
| 437 | Hood near Hood River ^e | | 335 | April-Sept. | 306 | 109 |
| | | | 284 | April-July | 260 | 109 |
| 438 | Hood, West Fork near Dee | | 158 | April-Sept. | 147 | 107 |
| | | | 134 | April-July | 127 | 106 |
| 3613 | White below Tygh Valley | | 165 | April-Sept. | 152 | 109 |
| | | | 148 | April-July | 135 | 110 |

SNOW

| SNOW COURSE | CURRENT INFORMATION | | | PAST RECORD | | YEARS OF ^c RECORD | |
|----------------------|---------------------|-----------|----------------|---------------------|------------------------|------------------------------|--|
| | NAME | ELEVATION | DATE OF SURVEY | SNOW DEPTH (Inches) | WATER CONTENT (Inches) | | |
| | | | | | | | |
| Brooks Meadows | 4300 | d | | | | | |
| Clear Lake | 3500 | g | | | | | |
| Greenpoint Reservoir | 3400 | 1-23 | 19 | 7.6 | 4.3 | 19.0 | |
| Phlox Point | 5600 | 1-27 | 117 | 46.7 | 21.2 | 37.9 | |
| Red Hill | 4400 | 1-26 | 67 | 29.4 | 9.5 | -- | |
| Still Creek | 3700 | 1-27 | 38 | 15.4 | 7.6 | 15.6 | |
| Tilly Jane | 6000 | 1-19 | 74 | 30.6 | -- | 37.9 | |

^a Assuming normal meteorological conditions. ^b 1938-'52, 15 year period. ^c Number of years in 1938-'52 period. ^d Not scheduled.

^e Corrected to natural flow. ^f Aerial snow depth gage; water content estimated.

Report delayed.

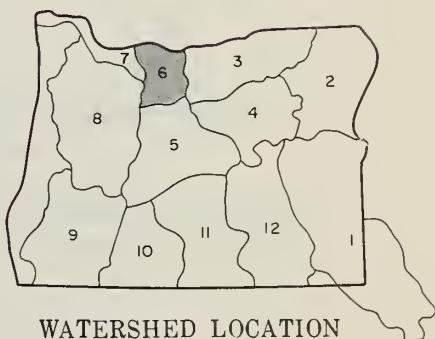
HOOD, MILE CREEKS, LOWER DESCHUTES WATERSHEDS

10 0 10 20
SCALE IN MILES



LEGEND

- Watershed Boundary
- - - Sub-watershed Boundary
- S.C.D. Boundary
- County Boundary
- ▲ Forecast Point
- Snow Course



WATERSHED LOCATION

WATER SUPPLY OUTLOOK LOWER COLUMBIA WATERSHEDS OREGON

as of

FEBRUARY 1, 1958

U.S.DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE and OREGON AGRICULTURAL EXPERIMENT STATION

GENERAL OUTLOOK

Flow of the Columbia River at The Dalles during the spring and summer period of 1958 is expected to be slightly above the 15 year average (1938-52) if normal meteorological conditions continue through the remaining months.

SNOW-COVER

The snow-pack on the Columbia River watersheds is slightly above normal with the highest snow water content in the northern portion of the basin both in the United States and Canada.

Using the system of weighting snow courses in accordance with contributions of the drainages, the entire basin is 110 percent of the normal snow-pack, as indicated by preliminary figures.

SOIL-MOISTURE

Relatively dry soil moisture conditions beneath the snow-pack will partially reduce total runoff from the above normal snow-cover.

RESERVOIR STORAGE

Storage in irrigation reservoirs is well above normal. Storage in power and multiple-use reservoirs is such that a maximum benefit for flood control, power, and irrigation will result.

STREAMFLOW

Forecasts of the flow of Columbia River at The Dalles, assuming normal conditions for the remainder of the season are as follows:

| | |
|-------------------------|---|
| April through June | 67,500,000 acre feet or 102 percent average |
| April through September | 97,000,000 acre feet or 101 percent average |

Report prepared by

W T. Frost and Mones Barton
 U S Department of Agriculture, Soil Conservation Service
 209 S W Fifth Avenue, Portland, Oregon

Preliminary snow-cover figures on the major Columbia tributaries show considerable variation. Part of this is a result of a variation in the number of years a snow course has been measured. Those courses with long periods of record indicate a comparatively heavier snow-pack for this year than do courses with short records. This is an important consideration since most of the recent years have been above normal.

Using the longer periods of record, preliminary percents of snow-cover have been developed as follows:

| | |
|---|-------------|
| Upper Columbia (including the Kootenai) | 114 percent |
| Pend Oreille | 100 percent |
| Spokane | 119 percent |
| Snake at Weiser | 105 percent |

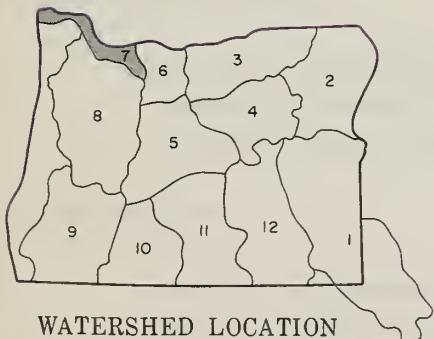
The Salmon and Clearwater Rivers are close to normal but there are no measured snow courses with long periods of record on these rivers.

Information furnished by
M. W. Nelson
Soil Conservation Service
Boise, Idaho

LOWER COLUMBIA WATERSHEDS

10 0 10 20 30
SCALE IN MILES

PACIFIC



WATERSHED LOCATION

LEGEND

- Watershed Boundary
- Sub-watershed Boundary
- S.C.D. Boundary
- County Boundary
- (50) River Miles

WATER SUPPLY OUTLOOK WILLAMETTE WATERSHEDS OREGON

as of
FEBRUARY 1, 1958

U S DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE and OREGON AGRICULTURAL EXPERIMENT STATION

GENERAL OUTLOOK

Irrigated lands in the Willamette Valley served from surface water supplies are assured a favorable water outlook if snowfall and precipitation during February and March continue to be near average.

SNOW-COVER

Mountain snow-cover for the Willamette watershed is 120 percent normal and nearly double the amount measured last year on February 1st. Snow at moderate and low level elevations is significantly below normal and will contribute below average runoff to smaller streams heading in low watersheds.

SOIL-MOISTURE

Soils on mountain watersheds are moderately wet under the snow-pack. At lower elevations they are well wetted. Wet soils contribute favorably to the total runoff.

RESERVOIR STORAGE

Because of earlier flood runoff, present storage in five multiple-purpose reservoirs is greater than normal. However, extra water is being spilled to return these reservoirs to normal operating levels.

STREAMFLOW

Forecasts of discharge of Willamette tributaries vary from 101 to 114 percent average for the April-September irrigation period. Row River, on the southern end of the area has the low forecast of 101 percent while the high forecast of 114 percent is for the North Santiam.

Report prepared by _____
W T Frost and Manes Barton
U S Department of Agriculture, Soil Conservation Service
209 S W Fifth Avenue, Portland, Oregon

WATER SUPPLY OUTLOOK^a

Local water supply is expressed as "Poor", "Fair", "Average" or "Excellent".

| STREAM or AREA | FLOW PERIOD | | REMARKS |
|-------------------------|---------------|-------------|---------|
| | SPRING SEASON | LATE SEASON | |
| Calapooya | Average | Average | |
| Clackamas | Average | Average | |
| McKenzie | Excellent | Average | |
| Mollalla | Average | Average | |
| Santiam, North | Excellent | Average | |
| Santiam, South | Average | Average | |
| Willamette, Coast Fork | Average | Average | |
| Willamette, Middle Fork | Average | Average | |

STREAMFLOW FORECASTS^a (1,000 Ac. Ft.)

| NO | FORECAST POINT NAME | FORECAST THIS YEAR | FORECAST PERIOD | NORMAL ^b | THIS YEAR AS PERCENT OF NORMAL |
|------|---|-----------------------|---------------------------|---------------------|--------------------------------------|
| 5911 | Clackamas at Big Bottom | 170 138 | April-Sept. April-July | 164 133 | 104 104 |
| 593 | Clackamas near Cazadero | 825 725 | April-Sept. April-July | 777 669 | 106 108 |
| 592 | Clackamas above Three Lynx | 620 530 | April-Sept. April-July | 599 507 | 104 105 |
| 534 | McKenzie at McKenzie Bridge | 635 490 | April-Sept. April-July | 565 430 | 112 113 |
| 535 | McKenzie near Vida | 1350 1110 | April-Sept. April-July | 1195 978 | 113 113 |
| 598 | Oak Grove Fork above Power Intake | 190 150 | April-Sept. April-July | 186 145 | 102 103 |
| 5215 | Row near Dorena | 102 97 | April-Sept. April-July | 101 96 | 101 101 |
| 554 | Santiam, North at Mehama ^c | 960 860 | April-Sept. April-July | 842 748 | 114 115 |
| 5516 | Santiam, South at Waterloo | 590 560 | April-Sept. April-July | 558 525 | 106 107 |
| 5117 | Willamette, Mid. Fork below North Fork near Oakridge | 840 750 | April-Sept. April-July | 798 705 | 105 106 |
| 516 | Willamette at Salem | 5100 4550 | April-Sept. April-July | 4355 3863 | 117 118 |

^a Assuming normal meteorological conditions. ^b 1938-'52, 15 year period. ^c Number of years in 1938-'52 period.^d Not scheduled. ^e Corrected to natural flow. ^f Aerial snow depth gage; water content estimated. ^gPartly estimated. ^h Report delayed.

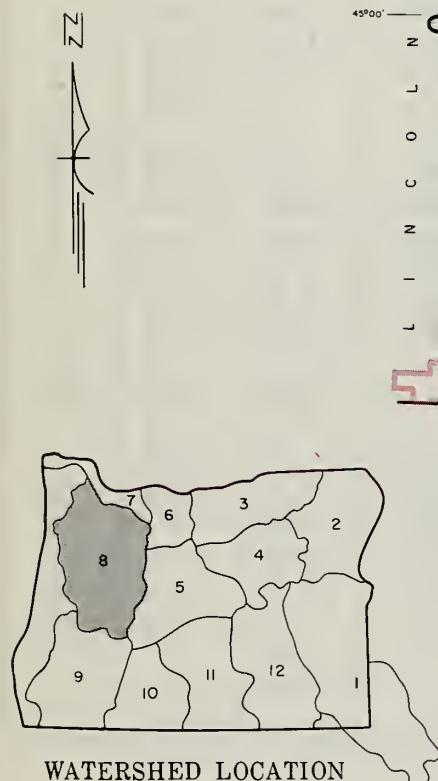
WILLAMETTE WATERSHEDS

10 0 10 20 30

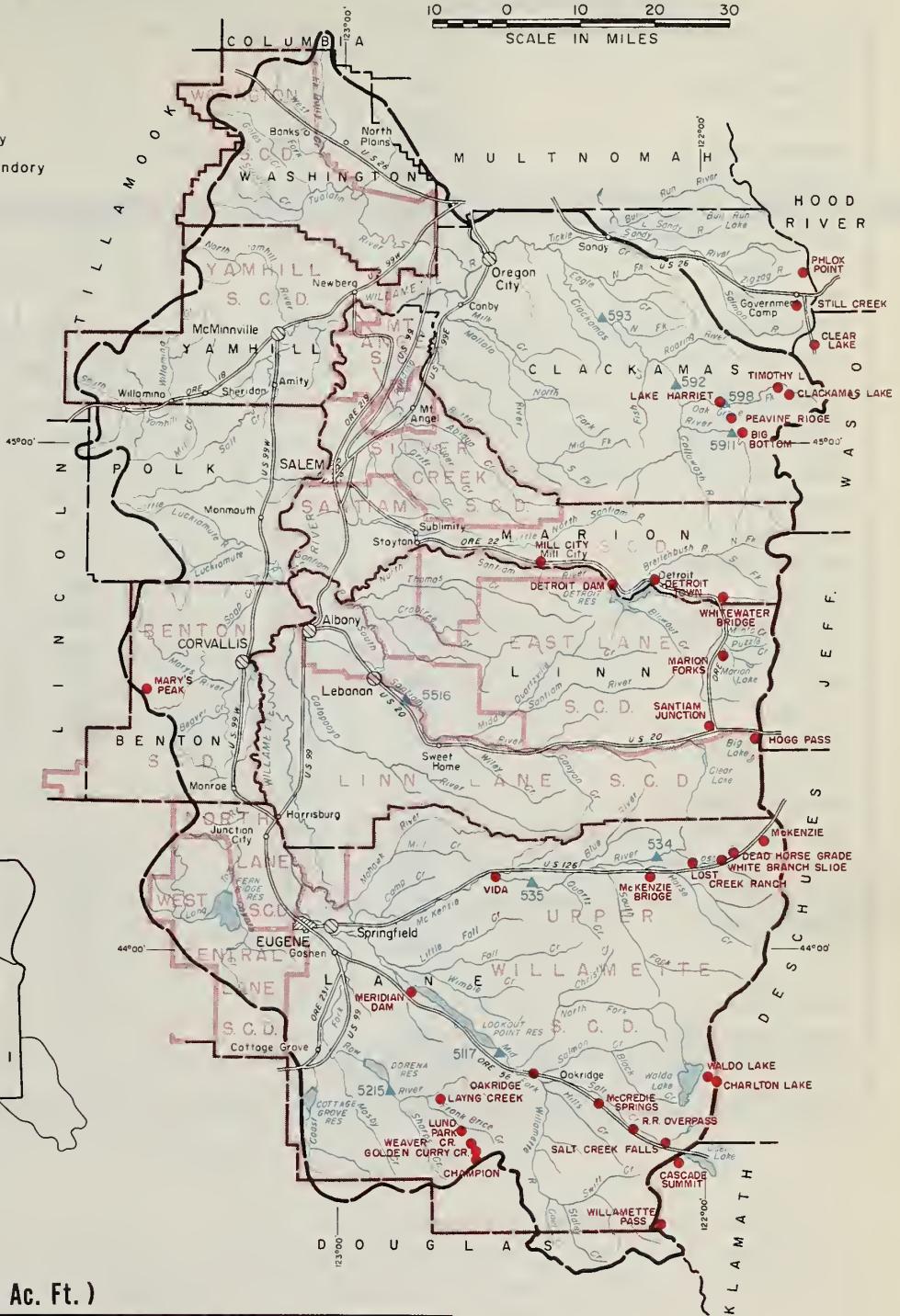
 SCALE IN MILES

LEGEND

 Watershed Boundary
 Sub-watershed Boundary
 S. C. D. Boundary
 County Boundary
 Forecast Point
 Snow Course



WATERSHED LOCATION



RESERVOIR STORAGE (1,000 Ac. Ft.)

| RESERVOIR | USABLE CAPACITY | MEASURED (First of Month) | | |
|---------------|--------------------|---------------------------|-----------|---------------------|
| | | THIS YEAR | LAST YEAR | NORMAL ^b |
| Cottage Grove | 30.1* | 8.6 | 0.0 | 0.1 |
| Detroit | 340.0* | 58.5 | 0.0 | -- |
| Dorena | 70.5* | 22.6 | 0.6 | -- |
| Fern Ridge | 94.2* | 34.0 | 0.0 | 15.2 |
| Lookout Point | 350.0* | 65.2 | 14.6 | -- |

* Storage space reserved for flood control.

Willamette Watersheds

SNOW

| SNOW COURSE | | CURRENT INFORMATION | | | PAST RECORD | | YEARS OF RECORD |
|--------------------|-----------|---------------------|---------------------|------------------------|------------------------|----------|-----------------|
| NAME | ELEVATION | DATE OF SURVEY | SNOW DEPTH (inches) | WATER CONTENT (inches) | WATER CONTENT (inches) | NORMAL b | |
| Big Battam | 2118 | 1-31 | 12 | 4.3 | 3.8 | - - | 2 |
| Cascade Summit | 4880 | 1-23 | 60 | 20.4 | 15.0 | 20.7 | 15 |
| Champion | 4500 | 1-27 | 54 | 21.4 | 9.2 | 17.0 | 14 |
| Charltan Lake | 5750 | 1-29 | 74 | 24.4 | 10.3 | 13.2 | 6 |
| Clackamas Lake | 3400 | h | | | | | |
| Clear Lake | 3500 | h | | | | | |
| Dead Harse Grade | 3800 | 1-28 | 28 | 10.1 | 9.5 | - - | 3 |
| Detroit Town | 1600 | 1-28 | 0 | 0.0 | 2.0 | - - | 3 |
| Detroit Dam | 1580 | 1-28 | 0 | 0.0 | 1.3 | - - | 3 |
| Golden Curry Creek | 3136 | 1-27 | 0 | 0.0 | 4.4 | - - | 3 |
| Hogg Pass | 4755 | 1-28 | 91 | 34.7 ^g | 20.2 | 27.4 | 15 |
| Lake Harriet | 3400 | 1-30 | 2 | 0.5 ^g | 2.5 | - - | 2 |
| Layng Creek | 1200 | 1-27 | 0 | 0.0 | T | - - | 3 |
| Lost Creek Ranch | 1746 | 1-28 | 0 | 0.0 | 4.5 | - - | 1 |
| Lund Park | 1740 | 1-27 | 0 | 0.0 | 1.0 | - - | 3 |
| Marion Forks | 2730 | 1-28 | 24 | 9.8 | 5.1 | 11.1 | 12 |
| Marys Peak | 3620 | 1-26 | 1 | 0.3 | - - | 5.8 | 10 |
| McCredie Springs | 2120 | 1-23 | 0 | 0.0 | T | - - | 3 |
| McKenzie | 4800 | 1-28 | 92 | 36.1 | 24.9 | 26.4 | 9 |
| McKenzie Bridge | 1372 | 1-28 | 0 | 0.0 | 2.8 | - - | 4 |
| Meridian Dam | 750 | 1-23 | 0 | 0.0 | 0.0 | - - | 2 |
| Mill City | 826 | 1-28 | 0 | 0.0 | - - | - - | 0 |
| Oakridge | 1310 | 1-23 | 0 | 0.0 | 0.0 | - - | 3 |
| Peavine Ridge | 3500 | 1-31 | 49 | 12.7 | 5.0 | 12.0 | 15 |
| Phlax Point | 5600 | 1-27 | 117 | 46.7 | 21.2 | 37.9 | 15 |
| Railroad Overpass | 2750 | 1-23 | 0 | 0.0 | 5.0 | - - | 3 |
| Salt Creek Falls | 4000 | 1-23 | 23 | 4.8 | 7.4 | - - | 3 |
| Santiam Junction | 3990 | 1-28 | 45 | 18.8 | 9.2 | 18.6 | 12 |
| Still Creek | 3700 | 1-27 | 38 | 15.4 | 7.6 | 15.6 | 15 |
| Timothy Lake | 3295 | 1-30 | 40 | 11.2 | 3.8 | - - | 0 |
| Vida | 800 | 1-28 | 0 | 0.0 | 0.0 | - - | 3 |
| Walda Lake | 5500 | 1-29 | 72 | 24.1 | 12.9 | 14.6 | 6 |
| Weaver Creek | 2440 | 1-27 | 0 | 0.0 | 1.8 | - - | 2 |
| White Branch Slide | 2800 | 1-28 | 0 | 0.0 | 5.8 | - - | 3 |
| Whitewater Bridge | 2175 | 1-28 | 4 | 1.7 | 3.0 | - - | 3 |
| Willamette Pass | 5600 | h | | | | | |

WATER SUPPLY OUTLOOK ROGUE, UMPQUA WATERSHEDS OREGON

as of
FEBRUARY 1, 1958

U.S.DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE and OREGON AGRICULTURAL EXPERIMENT STATION

GENERAL OUTLOOK

Rogue, Umpqua watersheds will have ample water supplies for irrigation purposes this coming spring and summer if mountain snow continues to accumulate in normal fashion the next two months. Snow-cover is less than usual in the middle elevations but the soils in this zone have been well primed.

SNOW-COVER

Water content of snow at 13 snow courses is 120 percent of the 1938-52 average and 164 percent of last year. Most snow courses below 4500 feet elevation have less than normal snow water amounts.

RESERVOIR STORAGE

The four Rogue watershed reservoirs hold less water than last year at this date but are well above average. Emigrant was reported spilling on January 27 in anticipation of adequate flow later for final filling.

STREAMFLOW

Average flow is forecast for all streams in the watershed area. Rogue above Prospect typifies the Rogue streams with a forecasted April-September flow of 325,000 acre feet, which is 103 percent of average.

Flow* of the Rogue at Raygold during January when some flooding occurred in the Grants Pass area, was 159 percent of the 1938-52 average. During the same period the Umpqua near Elkton flow was 142 percent average.

*Preliminary data from U. S. Geological Survey, Portland, Oregon.

Report prepared by:

| |
|--|
| W. T. Frost and Manes Barton |
| U. S. Department of Agriculture, Soil Conservation Service |
| 209 S W Fifth Avenue, Portland, Oregon |

WATER SUPPLY OUTLOOK^a

Local water supply is expressed as "Poor", "Fair", "Average" or "Excellent".

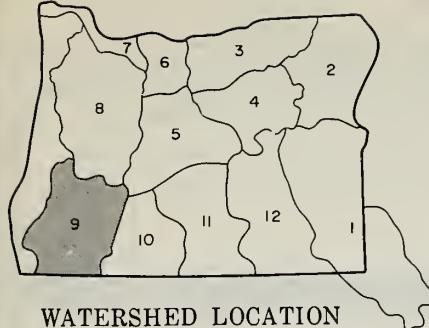
| STREAM or AREA | FLOW PERIOD | | REMARKS |
|----------------------------------|---------------|-------------|---------|
| | SPRING SEASON | LATE SEASON | |
| Althouse Creek | Average | Average | |
| Applegate River, Big | Excellent | Average | |
| Applegate River, Little | Excellent | Average | |
| Ashland Creek | Average | Average | |
| Butte Creek, Little | Average | Average | |
| Cow Creek | Average | Average | |
| Deer Creek | Average | Average | |
| Eagle Point I. D. | Average | Average | |
| Elk Creek | Average | Average | |
| Emigrant Creek (above Reservoir) | Average | Average | |
| Evans Creek | Average | Average | |
| Gold Hill I. D. | Average | Average | |
| Grants Pass I. D. | Average | Average | |
| Grave Creek | Average | Average | |
| Illinois River, East Fork | Average | Average | |
| Illinois River, West Fork | Average | Average | |
| Medford I. D. | Average | Average | |
| Neil Creek | Average | Average | |
| Red Blanket Creek | Average | Average | |
| Rogue River | Average | Average | |
| Rogue River Valley I. D. | Average | Average | |
| Sucker Creek | Excellent | Average | |
| Table Rock I. D. | Average | Average | |
| Talent I. D. | Average | Average | |
| Thompson Creek | Excellent | Average | |
| Wagner Creek | Average | Average | |
| Williams Creek | Excellent | Average | |

STREAMFLOW FORECASTS^a (1,000 Ac. Ft.)

| NO. | FORECAST POINT NAME | FORECAST THIS YEAR | FORECAST PERIOD | THIS YEAR AS PERCENT OF NORMAL | |
|-------|---|-----------------------|--------------------|--------------------------------------|--------------------------------------|
| | | | | NORMAL ^b | THIS YEAR AS PERCENT OF NORMAL |
| 7294 | Applegate near Copper | 145 | April-Sept. | 116 ^g | 125 |
| 7420A | Clearwater above Trap Creek ^e | 65 | April-Sept. | 64 | 102 |
| 8321 | Fourmile Lake net inflow ^e | d | April-Sept. | 7.0 | |
| 8320 | Hyatt Reservoir net inflow ^e | 5 | April-Sept. | 6.0 | 83 |
| 712 | Illinois River near Kerby ^e | 215 | April-Sept. | 181 | 119 |
| 7230 | Little Butte, North Fork below Fish Lake ^e | d | April-Sept. | 14.9 | |
| 722 | Rogue above Prospect | 325 | April-Sept. | 316 | 103 |
| | | 275 | April-July | 265 | 104 |
| 7217 | Rogue, Middle Fork near Prospect ^e | 80 | April-Sept. | 74 | 108 |
| | | 63 | April-July | 58 | 109 |
| 7282 | Rogue, South Fork near Prospect ^e | 81 | April-Sept. | 76 | 107 |
| | | 70 | April-July | 65 | 108 |
| 7277 | Rogue below South Fork | 720 | April-Sept. | 680 | 106 |
| | | 585 | April-July | 553 | 106 |
| 724 | Rogue at Raygold near Central Point | 960 | April-Sept. | 905 | 106 |
| | | 800 | April-July | 760 | 105 |
| 7292 | Rogue at Grants Pass | 900 | April-Sept. | 852 | 106 |
| 7419 | Umpqua, North Fork below Lake Creek ^e | 165 | April-Sept. | 164 | 101 |

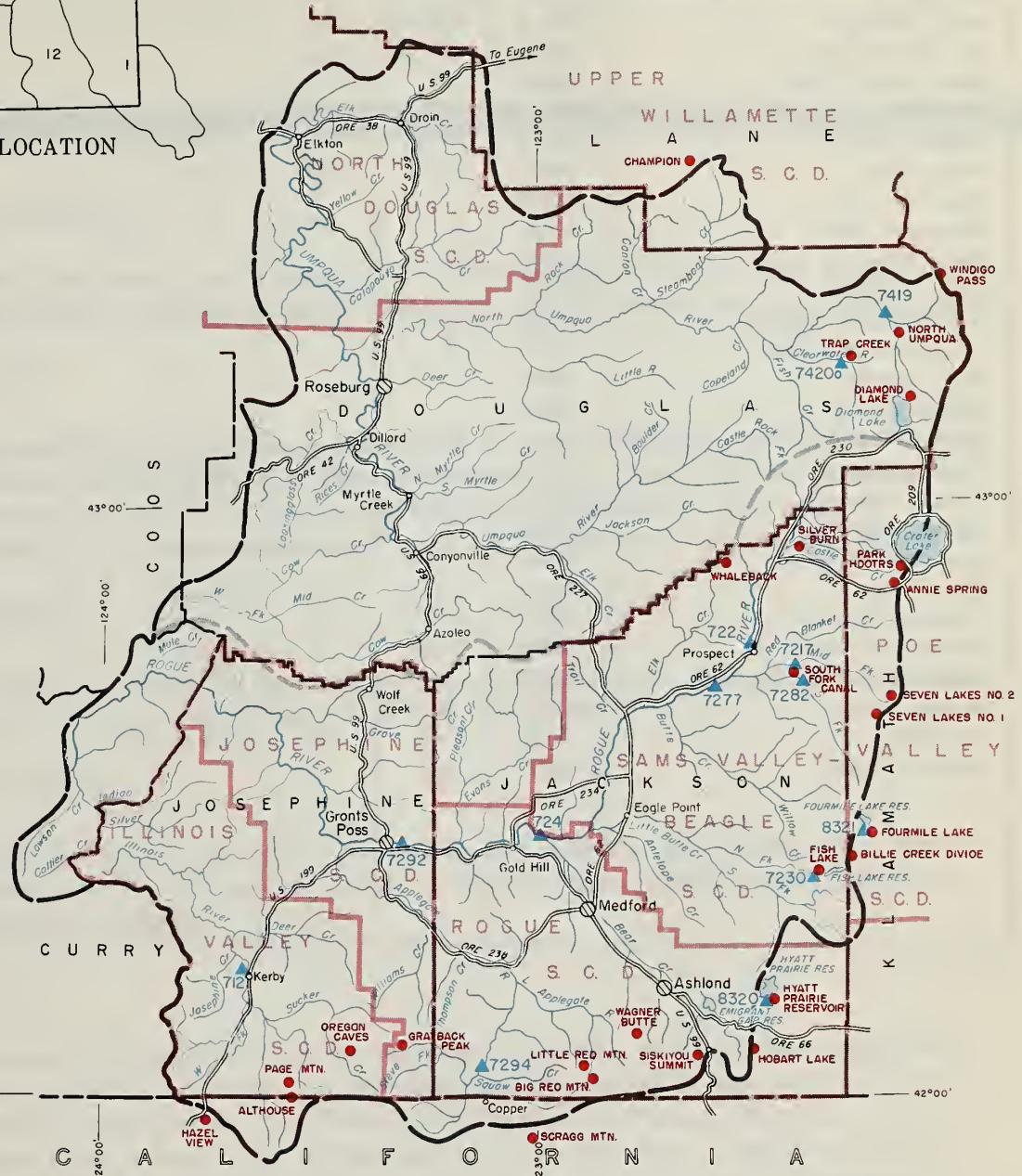
^a Assuming normal meteorological conditions. ^b 1938-'52, 15 year period. ^c Number of years in 1938-'52 period. ^d Not scheduled.^e Corrected to natural flow. ^f Aerial snow depth gage; water content estimated. ^g 1938-'39 excepted. ^h Report delayed.

ROGUE, UMPQUA WATERSHEDS



WATERSHED LOCATION

10 0 10 20 30
SCALE IN MILES



LEGEND

- Watershed Boundary
- Sub-watershed Boundary
- S.C.D. Boundary
- County Boundary
- ▲ Forecast Point
- Snow Course

RESERVOIR STORAGE (1,000 Ac. Ft.)

| RESERVOIR | USABLE CAPACITY | MEASURED (First of Month) | | |
|---------------|-----------------|---------------------------|-----------|---------------------|
| | | THIS YEAR | LAST YEAR | NORMAL ^b |
| Emigrant Gap | 8.3 | 5.9 | 6.6 | 5.1 |
| Fish Lake | 7.8 | 5.4 | 6.4 | 4.4 |
| Fourmile Lake | 16.1 | 6.2* | 15.6 | 6.7 |
| Hyatt Prairie | 16.1 | 8.7 | 11.7 | 4.8 |

* Oct. 21, 1957

Rogue, Umpqua Watersheds

SNOW

| SNOW COURSE | | CURRENT INFORMATION | | | PAST RECORD | | YEARS OF RECORD |
|-------------------------|------|---------------------|---------------------|------------------------|------------------------|-----------|-----------------|
| | | DATE OF SURVEY | SNOW DEPTH (Inches) | WATER CONTENT (Inches) | WATER CONTENT (Inches) | LAST YEAR | |
| Althouse | 4530 | 1-24 | 2 | 0.8 | 3.9 | 4.2 | 14 |
| Annie Spring | 6018 | 1-26 | 105 | 33.4 | 19.5 | 27.6 | 14 |
| Big Red Mountain | 6500 | h | | | | | |
| Billie Creek Divide | 5300 | d | | | | | |
| Champion | 4500 | 1-27 | 54 | 21.4 | 9.2 | 17.0 | 14 |
| Diamond Lake | 5315 | 1-22 | 50 | 17.0 | 10.1 | 14.8 | 15 |
| Fish Lake | 4865 | 1-27 | 28 | 10.2 | -- | 7.8 | 15 |
| Fourmile Lake | 6000 | d | | | | | |
| Grayback Peak | 6000 | 2-1 | 72 | 27.0 | 12.5 | 14.1 | 13 |
| Hazel View | 2500 | h | | | | | |
| Hobart Lake | 5010 | h | | | | | |
| Hyatt Prairie Reservoir | 4900 | 1-27 | 22 | 4.4 | -- | 6.5 | 15 |
| Little Red Mountain | 6500 | h | | | | | |
| North Umpqua | 4215 | h | | | | | |
| Oregon Caves | 4000 | h | | | | | |
| Page Mountain | 4045 | 1-24 | 2 | 0.2 | 5.0 | -- | 0 |
| Park Headquarters | 6450 | 1-25 | 125 | 42.7 | 25.6 | 38.2 | 7 |
| Scragg Mountain | 6200 | h | | | | | |
| Seven Lakes No. 1 | 6800 | h | | | | | |
| Seven Lakes No. 2 | 6200 | h | | | | | |
| Silver Burn | 3720 | 1-28 | 43 | 13.5 | 6.2 | 8.4 | 15 |
| Siskiyou Summit | 4630 | 1-25 | 23 | 6.6 | 5.4 | 5.5 | 15 |
| South Fork Canal | 3500 | 1-28 | 1 | 0.5 | 3.0 | 3.2 | 15 |
| Trap Creek | 3800 | h | | | | | |
| Wagner Butte | 6900 | h | | | | | |
| Whaleback | 5140 | 1-25 | 89 | 28.3 | 16.0 | 23.8 | 13 |
| Windigo Pass | 5800 | h | | | | | |

WATER SUPPLY OUTLOOK KLAMATH WATERSHEDS OREGON

as of
FEBRUARY 1, 1958

U.S.DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE and OREGON AGRICULTURAL EXPERIMENT STATION

GENERAL OUTLOOK

An excellent water supply outlook for 1958 irrigation in the Klamath Basin is assured unless snowfall and precipitation during February and March are much below normal.

SNOW-COVER

The mountain snow-pack has a water content of 125 percent of the 15 year average and nearly double that of last year on February 1st. Usually by this date about 65 percent of the total winter's snow has been accumulated. This year the Klamath already has accumulated 73 percent of a normal winter's snowfall.

SOIL-MOISTURE

All reports indicate the snow-cover lies on very wet soils throughout the watershed. This will favor a satisfactory runoff from snow-melt.

RESERVOIR STORAGE

Storage of water in the three largest reservoirs, Gerber, Clear Lake, and Upper Klamath Lake, is 136 percent of the 15 year average. Total storage is slightly greater than last year.

STREAMFLOW

Forecasts of stream discharge for the irrigation season, April through September, are all well above average. Upper Klamath Lake inflow is expected to be 121 percent average and so is the flow of Williamson River near Chiloquin. The Sprague River is forecast at 119 percent of its average flow. Gerber and Clear Lake Reservoirs are expected to have inflows measuring 125 and 116 percent of average for the April-September period.

Report prepared by

W T Frost and Manes Barton
U S Department of Agriculture, Soil Conservation Service
209 S W Fifth Avenue, Portland, Oregon

WATER SUPPLY OUTLOOK^a

Local water supply is expressed as "Poor", "Fair", "Average" or "Excellent".

| STREAM or AREA | FLOW PERIOD | | REMARKS |
|-------------------------------|---------------|-------------|---------|
| | SPRING SEASON | LATE SEASON | |
| Ft. Klamath Valley | Excellent | Average | |
| Lost River (Clear Lake) | Excellent | Average | |
| Lost River (Gerber) | Excellent | Average | |
| Lost River (Willow Reservoir) | Excellent | Average | |
| Sprague River | Excellent | Average | |
| Upper Klamath Lake | Excellent | Average | |
| Williamson River | Excellent | Average | |

STREAMFLOW FORECASTS^a (1,000 Ac. Ft.)

| NO. | NAME | FORECAST POINT | FORECAST THIS YEAR | FORECAST PERIOD | NORMAL ^b | THIS YEAR AS PERCENT OF NORMAL |
|------|--|----------------|--------------------|-------------------------------|---------------------|--------------------------------|
| | | | | | | |
| 823 | Clear Lake Reservoir net inflow ^g | | 57 105 | April - Sept. March - July | 49 86 | 116 122 |
| 8215 | Gerber Reservoir net inflow ^g | | 30 55 | April - Sept. March - July | 24 42 | 125 131 |
| 8421 | Sprague near Chiloquin | | 270 | April - Sept. | 253 | 107 |
| 832 | Upper Klamath Lake net inflow ^g | | 560 460 | April - Sept. April - July | 526 424 | 106 108 |
| 8419 | Williamson below Sprague River | | 440 365 | April - Sept. April - July | 406 340 | 108 107 |
| | | | | | | |

RESERVOIR STORAGE (1,000 Ac. Ft.)

| RESERVOIR | USABLE CAPACITY | MEASURED (First of Month) | | |
|--------------------|--------------------|---------------------------|-----------|---------------------|
| | | THIS YEAR | LAST YEAR | NORMAL ^b |
| Clear Lake | 440.2 ^h | 311.9 | 301.3 | 189.8 |
| Gerber | 94.0 | 59.7 | 52.0 | 31.3 |
| Upper Klamath Lake | 584.0 | 390.2 | 386.8 | 340.3 |

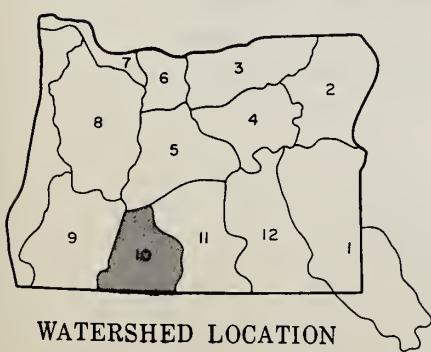
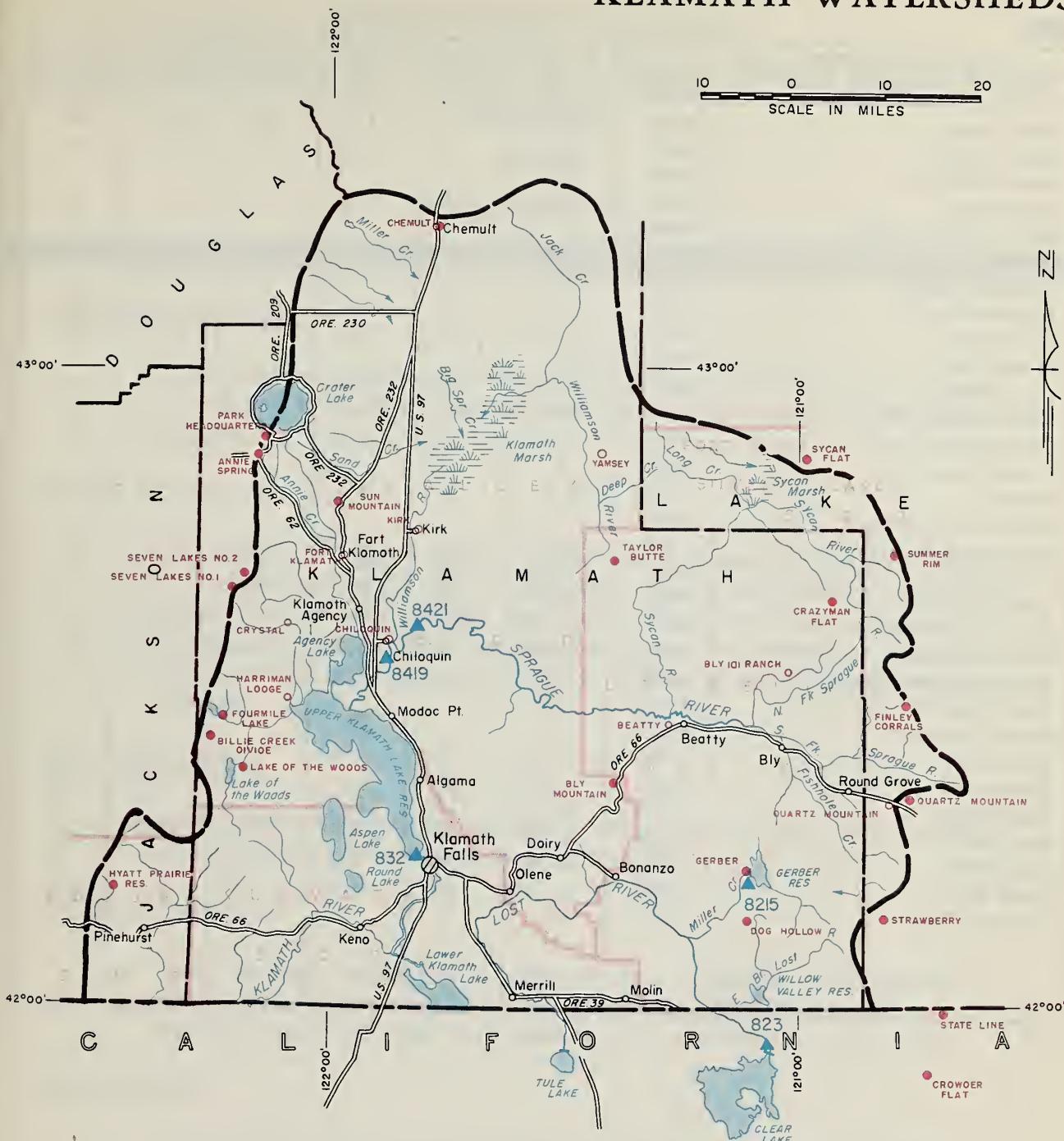
^a Assuming normal meteorological conditions. ^b 1938-'52, 15 year period. ^c Number of years in 1938-'52 period. ^d Not scheduled.

^e Corrected to natural flow. ^f Aerial snow depth gage; water content estimated. ^g From COPCO or U.S.B.R. records of inflow. ^h Flashboards increase capacity to 513.0

ⁱ Report delayed.

KLAMATH WATERSHEDS

10 0 10 20
SCALE IN MILES



WATERSHED LOCATION

LEGEND

- Watershed Boundary
- Sub-watershed Boundary
- S.C.D. Boundary
- County Boundary
- ▲ Forecast Point
- Snow Course
- COPCO Snow Station

Klamath Watersheds

SNOW

| SNOW COURSE | | DATE OF SURVEY | SNOW DEPTH (Inches) | WATER CONTENT (Inches) | CURRENT INFORMATION | | PAST RECORD | YEARS OF RECORD |
|-------------------------|-----------|----------------|------------------------|---------------------------|---------------------|----------|------------------------|-----------------|
| NAME | ELEVATION | | | | LAST YEAR | NORMAL b | WATER CONTENT (Inches) | |
| Annie Spring | 6018 | 1-26 | 105 | 33.4 | 19.5 | 27.6 | 14 | |
| Beatty (Copco) | 4300 | 1-31 | 1 | 0.2 | 0.8 | 0.4 | | 15 |
| Billie Creek Divide | 5300 | d | | | | | | |
| Bly Mountoain | 5090 | 1-29 | 33 | 8.6 | -- | -- | | 0 |
| Bly IOI Ranch (Copco) | 4800 | i | | | | | | |
| Chemult | 4760 | 1-27 | 34 | 9.5 | 4.7 | 8.5 | | 15 |
| Chiloquin (Copco) | 4187 | i | | | | | | |
| Crozymon Flat f | 6100 | 1-31 | 42 | 10.9 | -- | -- | | 0 |
| Crowder Flot f | 5200 | 1-31 | 18 | 4.7 | -- | 2.7 | | 12 |
| Crystol (Copco) | 4200 | i | | | | | | |
| Dog Hollow f | 4900 | 1-31 | 6 | 1.6 | -- | -- | | 0 |
| Finley Corrols f | 6000 | 1-31 | 66 | 17.2 | -- | -- | | 0 |
| Fort Klomoth (Copco) | 4150 | 1-31 | 22 | 6.8 | 5.8 | 3.6 | | 15 |
| Fourmile Lake | 6000 | d | | | | | | |
| Gerber | 4850 | 1-30 | 9 | 3.4 | 2.1 | -- | | 3 |
| Harrimon Lodge (Copco) | 4200 | i | | | | | | |
| Hyatt Prairie Reservoir | 4900 | 1-27 | 22 | 4.4 | -- | 6.5 | | 15 |
| Kirk (Copco) | 4533 | 1-31 | 36 | 8.6 | 4.7 | 5.3 | | 15 |
| Lake of the Woods | 4960 | 1-16 | 28 | 7.0 | 3.5 | 7.3 | | 15 |
| Pork Headquarters | 6450 | 1-25 | 125 | 42.7 | 25.6 | 38.2 | | 7 |
| Quartz Mountain | 5320 | 1-29 | 25 | 7.5 | 3.4 | 4.8 | | 14 |
| Quartz Mountain (Copco) | 5504 | 1-29 | 25 | 7.4 | 3.0 | 5.5 | | 14 |
| Seven Lokes No.1 | 6800 | i | | | | | | |
| Seven Lokes No.2 | 6200 | i | | | | | | |
| State Line f | 5750 | 1-31 | 36 | 9.4 | -- | -- | | 0 |
| Strawberry | 5600 | 1-22 | 21 | 4.8 | 4.2 | 5.9 | | 9 |
| Summer Rim | 7200 | 1-31 | 46 | 12.0f | -- | -- | | 0 |
| Sun Mountoain | 5350 | 1-29 | 89 | 27.9 | 13.4 | 17.7 | | 15 |
| Sycan Flot f | 5500 | 1-31 | 36 | 9.4 | -- | -- | | 0 |
| Toylor Butte | 5100 | 1-31 | 24 | 6.2f | 3.7 | 3.4 | | 13 |
| Yamsey (Copco) | 4600 | i | | | | | | |

WATER SUPPLY OUTLOOK LAKE COUNTY, GOOSE LAKE WATERSHEDS OREGON

as of

FEBRUARY 1, 1958

U.S. DEPARTMENT OF AGRICULTURE, SOIL CONSERVATION SERVICE and OREGON AGRICULTURAL EXPERIMENT STATION

GENERAL OUTLOOK

A satisfactory water supply for irrigated lands of the county seems assured if snowfall and precipitation continue near average during February and March.

SNOW-COVER

An analysis of 15 snow surveys indicates water content of the snow-pack is 123 percent of the 15 year average and is double that measured on February 1 last year. A series of nine snow depth gages were observed from a passing airplane and these readings have aided the present snow interpretation. The snow-cover is less satisfactory in the Hart Mountain and Guano Lake regions.

SOIL-MOISTURE

Soils under the snow-pack are reported to be well wetted. Well "primed" watersheds will favor a good snow-melt runoff.

RESERVOIR STORAGE

Drew Reservoir has 48,800 acre feet of water in storage or 138 percent of average. Cottonwood will not begin storage until a later date. Indications are that most stock ponds will fill with the early snow-melt.

STREAMFLOW

Forecasts for spring and summer streamflow are all average or somewhat greater. The March-July inflow to Drew Reservoir is forecast at 102 percent of the 15 year average. Deep Creek is forecast to discharge 107 percent of average for the April-June period.

Report prepared by:

W. T. Frost and Manes Barton
U. S. Department of Agriculture, Soil Conservation Service
209 S. W. Fifth Avenue, Portland, Oregon

WATER SUPPLY OUTLOOK^a

Local water supply is expressed as "Poor", "Fair", "Average" or "Excellent".

| STREAM or AREA | FLOW PERIOD | | REMARKS |
|----------------------------------|---------------|-------------|---------|
| | SPRING SEASON | LATE SEASON | |
| Chewaucan River | Average | Average | |
| Crooked Creek | Average | Average | |
| Deep Creek | Average | Average | |
| Dry Creek | Average | Average | |
| East Side Goose Lake | Average | Average | |
| Guano Lake | Average | Fair | |
| Honey Creek | Average | Average | |
| Lakeview Water Users Association | Excellent | Average | |
| Rack Creek | Average | Fair | |
| Silver-Buck Creeks | Average | Average | |
| Summer Lake | Average | Average | |
| Thomas Creek | Average | Average | |
| Twentymile Creek | Average | Average | |
| Warner Lakes | Average | Average | |

STREAMFLOW FORECASTS^a (1,000 Ac. Ft.)

| NO. | FORECAST POINT NAME | FORECAST THIS YEAR | FORECAST PERIOD | NORMAL ^b | THIS YEAR AS PERCENT OF NORMAL |
|------|---------------------------|-----------------------|--------------------|---------------------|--------------------------------------|
| | | | | | |
| 924 | Chewaucan near Paisley | d | April - June | 73 | |
| 9127 | Deep above Adel | 72 | April - June | 67 | 107 |
| 814 | Drew Reservoir net inflow | d | April - July | 30 ^g | 102 |
| 9114 | Honey near Plush | 45 | March - July | 44 ^g | 106 |
| 916 | Twentymile near Adel | 16.5 | April - June | 15.6 ^h | 105 |
| | | 22 | April - June | 21 ⁱ | |

SNOW

| SNOW COURSE | CURRENT INFORMATION | | | PAST RECORD | | YEARS OF ^c RECORD |
|------------------------------------|---------------------|-----------|-------------------|------------------------|------------------------------|---------------------------------|
| | NAME | ELEVATION | DATE OF SURVEY | SNOW DEPTH (Inches) | WATER CONTENT (Inches) | |
| | | | | | LAST YEAR | NORMAL ^b |
| Bald Mountain | 6720 | j | | | | |
| Bear Flat Meadow ^f | 5900 | 1-27 | 22 | 5.7 | -- | -- |
| Camas Creek | 5720 | 1-27 | 38 | 10.0 | 4.3 | 7.5 |
| Cox Flat ^f | 5750 | 1-27 | 36 | 9.4 | -- | -- |
| Crane Mountain ^f | 6020 | 1-27 | 30 | 7.8 | -- | -- |
| Crowder Flat ^f | 5200 | 1-31 | 18 | 4.7 | -- | 2.7 |
| Dismal Swamp ^f (Calif.) | 7000 | 1-27 | 45 | 11.7 | -- | -- |
| Finley Corrals ^f | 6000 | 1-31 | 66 | 17.2 | -- | -- |
| Hart Mountain ^f | 6350 | 1-27 | 3 | 0.8 | -- | 2.3 |
| Mill Creek | 6200 | d | | | | |
| Quartz Mountain (COPCO) | 5504 | 1-29 | 25 | 7.4 | 3.0 | 5.5 |
| Quartz Mountain | 5320 | 1-29 | 25 | 7.5 | 3.4 | 4.8 |
| Sherman Valley ^f | 6600 | 1-27 | 36 | 9.4 | -- | -- |
| Silver Creek | 4900 | j | | | | |
| State Line ^f | 5750 | 1-31 | 36 | 9.4 | -- | -- |
| Strawberry | 5600 | 1-22 | 21 | 4.8 | 4.2 | 5.9 |
| Summer Rim | 7200 | 1-31 | 46 | 12.0 ^f | -- | -- |
| Sycan Flat ^f | 5500 | 1-31 | 36 | 9.4 | -- | -- |

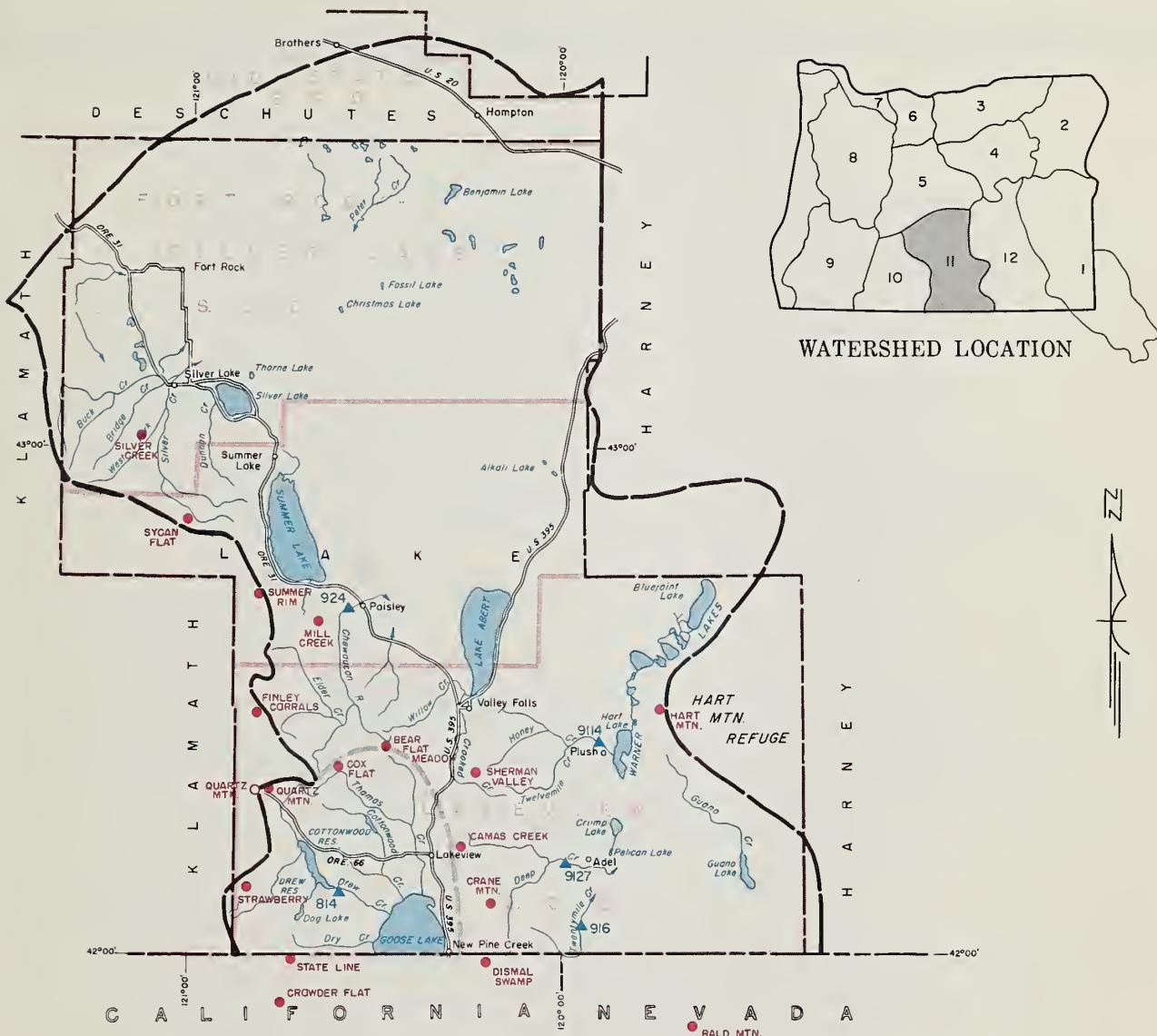
^a Assuming normal meteorological conditions. ^b 1938-'52, 15 year period. ^c Number of years in 1938-'52 period. ^d Not scheduled.

^e Corrected to natural flow. ^f Aerial snow depth gage; water content estimated. ^g 1942, '43 and '45 excepted ^h 1942 excepted ⁱ 1938-'40 excepted.

Report delayed.

LAKE COUNTY, GOOSE LAKE WATERSHEDS

10 0 10 20 30
SCALE IN MILES



RESERVOIR STORAGE (1,000 Ac. Ft.)

| RESERVOIR | USABLE CAPACITY | MEASURED (First of Month) | | |
|------------|-----------------|---------------------------|-----------|----------|
| | | THIS YEAR | LAST YEAR | NORMAL b |
| Cottonwood | 4.1 | 0.0 | 0.1 | 0.1 |
| Drew | 62.5 | 48.8 | 43.1 | 35.2 |

LEGEND

- Watershed Boundary
- Sub-watershed Boundary
- S.C.D. Boundary
- County Boundary
- ▲ Forecast Point
- Snow Course
- COPCO Snow Station

Lake County, Goose Lake Watersheds

"The Conservation of Water begins with the Snow Survey"

WATER SUPPLY OUTLOOK HARNEY BASIN WATERSHEDS OREGON

as of
FEBRUARY 1, 1958

U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE and OREGON AGRICULTURAL EXPERIMENT STATION

GENERAL OUTLOOK

Water users in the Harney Basin, particularly those in the north part of the basin, can look forward to average or better water supplies this coming spring and summer even if snow-pack accumulation should be somewhat less than normal the remainder of the winter.

SNOW-COVER

Water content of snow on the northern snow courses already nearly equals the usual winter accumulation. Snow data is lacking for the southern portion of the basin.

SOIL-MOISTURE

Soils under the mountain snow are well wetted. Valley soils have been further wetted this past month. Precipitation has been well above normal the past month. Accordingly, soils in the southern part of the watershed have increased their moisture content.

STREAMFLOW

Flow of the Silvies River is forecast to be 113 percent average for April-September. Most streams in the basin will have average flows, particularly during the spring season.

Report prepared by

W.T. Frost and Manes Barton
U.S. Department of Agriculture, Soil Conservation Service
209 S.W. Fifth Avenue, Portland, Oregon

WATER SUPPLY OUTLOOK^a

Local water supply is expressed as "Poor," "Fair," "Average" or "Excellent".

| STREAM or AREA | FLOW PERIOD | | REMARKS |
|--------------------------|---------------|-------------|---------|
| | SPRING SEASON | LATE SEASON | |
| Catlow Valley | Average | Fair | |
| Cow Creek | Average | Average | |
| Donner und Blitzen River | Average | Average | |
| Mill - Coffeepot Creeks | Average | Average | |
| Rattlesnake Creek | Average | Average | |
| Silver Creek | Average | Average | |
| Silvies River | Excellent | Average | |
| Soldier - Prather Creek | Average | Average | |
| Trout Creek | Average | Average | |
| Whitehorse Creek | Average | Average | |

STREAMFLOW FORECASTS^a (1,000 Ac. Ft.)

| FORECAST POINT | | FORECAST THIS YEAR | FORECAST PERIOD | NORMAL ^b | THIS YEAR AS PERCENT OF NORMAL |
|----------------|------------------------------------|-----------------------|--------------------|---------------------|--------------------------------------|
| NO. | NAME | | | | |
| 953 | Donner und Blitzen near Frenchglen | d | April - Sept. | 66 | |
| 966 | Silvies near Burns | 115 | April - Sept. | 102 | |
| 974 | Trout near Denio | d | April - Sept. | 9.6 | 113 |

SNOW

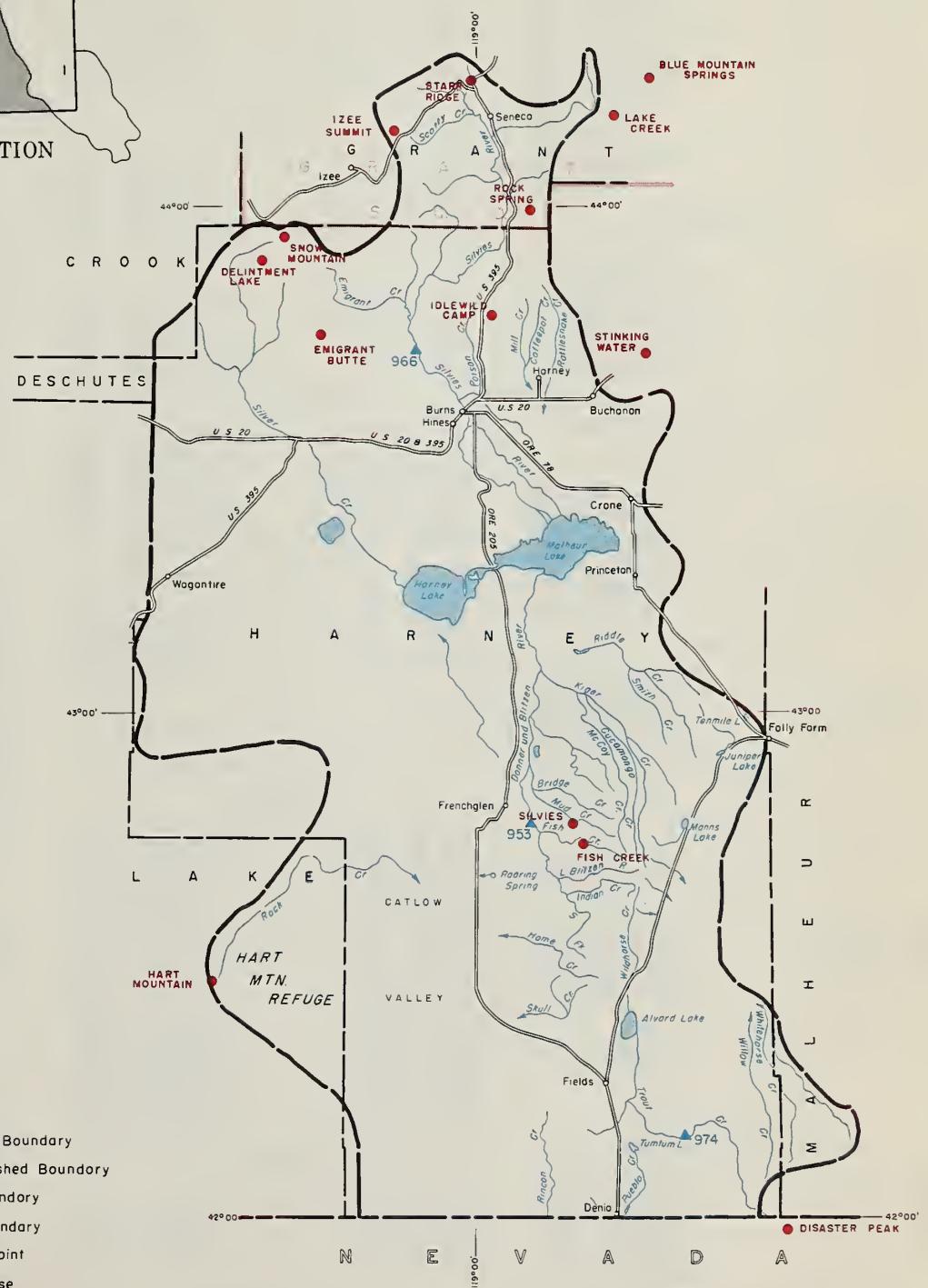
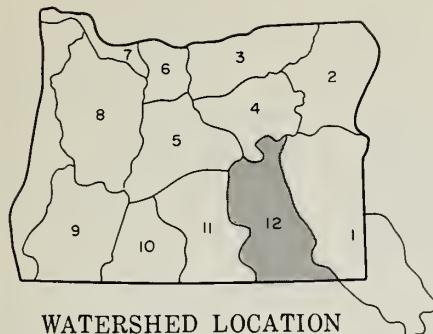
| SNOW COURSE | | CURRENT INFORMATION | | | PAST RECORD | | |
|----------------------------|-----------|---------------------|---------------------|------------------------|------------------------|-----------------|----|
| NAME | ELEVATION | DATE OF SURVEY | SNOW DEPTH (Inches) | WATER CONTENT (Inches) | WATER CONTENT (Inches) | YEARS OF RECORD | |
| | | | | LAST YEAR | NORMAL ^b | | |
| Blue Mountain Springs | 5900 | 1-28 | 54 | 14.7 | 6.6 | 10.2 | 14 |
| Delintment Lake | 5600 | d | | | | | |
| Disaster Peak | 6500 | g | | | | | |
| Emigrant Butte | 5000 | d | | | | | |
| Fish Creek | 7900 | d | | | | | |
| Hart Mountain ^f | 6350 | 1-27 | 3 | 0.8 | -- | 2.3 | 5 |
| Idlewild Camp | 5200 | 1-28 | 23 | 6.5 | 1.5 | 4.0 | 15 |
| Izee Summit | 5293 | 1-27 | 29 | 7.2 | 3.3 | 6.0 | 15 |
| Lake Creek | 5120 | 1-28 | 36 | 9.5 | 5.1 | -- | 3 |
| Rock Spring | 5100 | 1-28 | 24 | 5.8 | 1.5 | 4.4 | 15 |
| Silvies | 6900 | d | | | | | |
| Snow Mountain | 6300 | d | | | | | |
| Starr Ridge | 5150 | 1-27 | 22 | 4.8 | 2.1 | 4.3 | 15 |
| Stinking Water | 4800 | 1-28 | 18 | 4.6 | 3.3 | 3.6 | 15 |

^a Assuming normal meteorological conditions. ^b 1938-'52, 15 year period. ^c Number of years in 1938-'52 period. ^d Not scheduled.

^e Corrected to natural flow. ^f Aerial snow depth gage; water content estimated. ^g Report delayed.

HARNEY BASIN WATERSHEDS

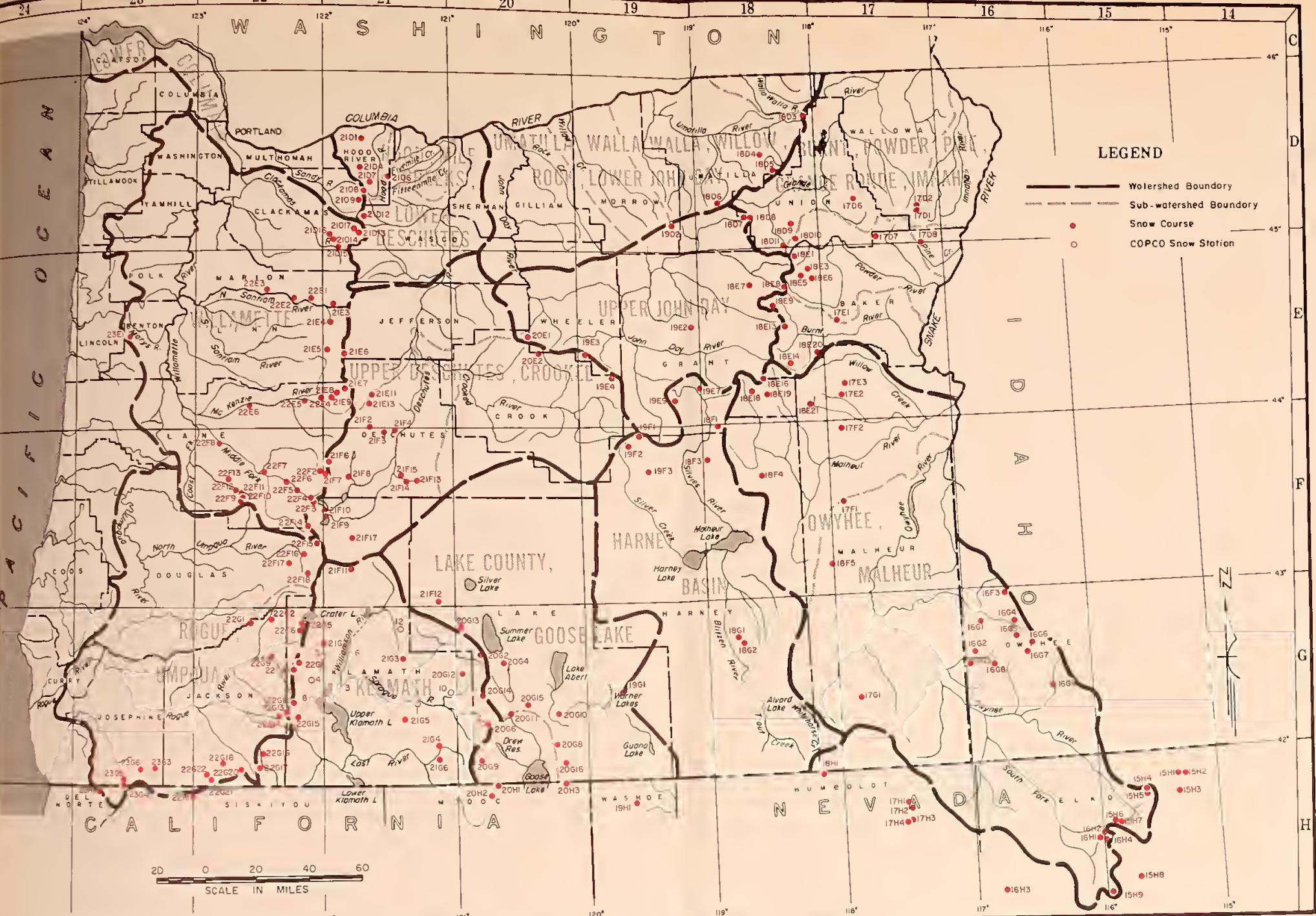
10 0 10 20 30
SCALE IN MILES



Harney Basin Watersheds

"The Conservation of Water begins with the Snow Survey"

MAP and INDEX to OREGON SNOW COURSES



NOTE
LOC
Sec T =
DHYHEE, MALHEUR WATERSHEDS

America were developed.

| Number | Name | Location | Elev | Number | Name | Location | Elev | Number | Name | Location | Elev | |
|---|----------------------|----------|------|--------|------|------------------------------|-------------------------|---------|------|----------|-------|------|
| | | Sec | Twp | Rge | | Sec | Twp | Rge | | Sec | | |
| UMATILLA RIVER (Cont'd.) | | | | | | | | | | | | |
| 18D4 | Emigrant Springs | 29 | 1N | 35E | 3925 | CLACKAMAS RIVER | | | | | | |
| 1806 | Lucky Strike | 28 | 3S | 32E | 5050 | 21D15 | Big Bottom | 25 | 6S | 7E | 2118 | |
| 18D5 | Meacham | 24 & 25 | 1S | 35E | 4300 | 21D13 | Clackamas Lake | 35 | 5S | 8½E | 3400 | |
| 1RD3 | Tollgate | 32 | 4N | 38E | 5070 | 21D12 | Clear Lake | 29 | 4S | 9E | 3500 | |
| WALLA WALLA RIVER | | | | | | | | | | | | |
| 1803 | Tollgate | 32 | 4N | 38E | 5070 | 21D14 | Lake Harriat | 4 | 6S | 7E | 2045 | |
| WILLOW CREEK | | | | | | | | | | | | |
| 1902 | Arbuckle Mountain | 33 | 4S | 29E | 5400 | 21D17 | Peavine Ridge | 14 & 15 | 6S | 7E | 3500 | |
| UPPER JOHN DAY WATERSHEDS (4) | | | | | | | | | | | | |
| UPPER JOHN DAY RIVER | | | | | | | | | | | | |
| 18E1 | Anthony Lake | 18 | 7S | 37E | 7125 | 22E1 | Detroit (town) | 1 | 10S | 5E | 1500+ | |
| 19D2 | Arouckie Mountain | 33 | 4S | 29E | 5400 | 22E2 | Oetroit Dam | 7 | 10S | 5E | 1580 | |
| 19E2 | Beech Creek Summit | 4 | 12S | 30E | 4800 | 21E6 | Hogg Pass | 24 | 13S | 7½E | 4755 | |
| 18E16 | Blue Mountain Spring | 21 | 15S | 35E | 5900 | 21E4 | Marion Forks | 28 | 11S | 7E | 2730 | |
| 18E13 | Blue Mountain Summit | 6 | 12S | 36E | 5098 | 22E3 | Mill City | 29 | 9S | 3E | 826 | |
| McKENZIE RIVER | | | | | | | | | | | | |
| 19E3 | Oerr | 14 | 13S | 23E | 5670 | 21E8 | Dead Horse Grade | 13 | 16S | 7E | 3800 | |
| 18E11 | Dixie Springs | 28 | 11S | 34E | 6650 | 22E4 | Lost Creek Ranch | 24 | 16S | 6E | 1746 | |
| 18E8 | Gold Center | 21 | 9S | 36E | 5340 | 21E7 | McKenzie | 35 | 15S | 7½E | 4800 | |
| 18E9 | Izze Summit | 28 | 16S | 29E | 5293 | 22E5 | McKenzie Bridge | 13 | 16S | 5E | 1372 | |
| 18D6 | Lucky Strike | 28 | 3S | 32E | 5050 | 22E6 | Vida | 28 | 26S | 6E | 800 | |
| 20E1 | Marks Creek | 25 | 12S | 19E | 4540 | 21E9 | White Branch Slide | 15 | 16S | 7E | 2800 | |
| 20E2 | Ochoco Meadows | 21 | 13S | 20E | 5200 | MIDDLE FORK WILLAMETTE RIVER | | | | | | |
| 18E7 | Olive Lake | 14 | 9S | 33E | 6000 | 22F3 | Cascade Summit | 7 | 23S | 6E | 4880 | |
| 18D7 | Schoalmarm | 28 | 4S | 34E | 4775 | 21F7 | Charlton Lake | 23 | 21S | 6E | 5750 | |
| 19F1 | Snow Mountain | 1 | 19S | 26E | 6300 | 22F6 | McCredie Springs | 36 | 21S | 4S | 2120 | |
| 19E7 | Starr Ridge | 20 | 15S | 31E | 5150 | 22F8 | Meridian Dam | 13 | 19S | 1W | 750 | |
| 18E9 | Tipton | 34 | 10S | 35½E | 5100 | 22F7 | Oakridge | 16 | 21S | 3E | 1310 | |
| UPPER DESCHUTES, CROOKED WATERSHEDS (5) | | | | | | | | | | | | |
| UPPER OESCHUTES RIVER | | | | | | | | | | | | |
| 21E11 | Black Pine Spring | 14 | 18S | 9E | 4600 | COAST FORK WILLAMETTE RIVER | | | | | | |
| 21F8 | Caldwell Ranch | 30 | 21S | 8E | 4400 | 22F9 | Champion | 12 | 23S | 1E | 4500 | |
| 22F3 | Cascade Summit | 7 | 23S | 6E | 4880 | 22F10 | Golden Curry Creek | 1 | 23S | 1E | 3136 | |
| 21F7 | Charlton Lake | 23 | 21S | 6E | 5750 | 22F13 | Laying Creek R. S. | 31 | 21S | 1E | 1200 | |
| 21F11 | Chemult | 21 | 27S | 8E | 4760 | 22F12 | Lund Park | 22 | 22S | 1E | 1740 | |
| 21F9 | Crescent Lake | 11 | 24S | 6E | 4760 | 22F11 | Weavar Creek | 35 | 22S | 1E | 2440 | |
| 21F4 | Fire Road | 36 | 21S | 11E | 5050 | MARY'S RIVER | | | | | | |
| 21E6 | Hogg Pass | 24 | 13S | 7½E | 4755 | 23E1 | Mary's Peak | 21 | 12S | 7W | 3620 | |
| 21F4 | Hungry Flat | 30 | 18S | 11E | 4400 | ROGUE, UMPQUA WATERSHEDS (9) | | | | | | |
| 21F6 | Irish-Taylor | 25 | 20S | 6E | 5500 | ROGUE RIVER | | | | | | |
| 21F17 | Mowich | 29 | 25S | 8E | 4700 | 20G2 | Summer Rdm | | | | | |
| 21F10 | New Crescent Lake | 11 | 24S | 6E | 4800 | SUMMER LAKE | | | | | | |
| 21F2 | New Dutchman Flat | 21 | 18S | 9E | 6400 | 20G15 | *Bear Flat Meadow | | | | | |
| 21F13 | Paulina Lake | 34 | 21S | 12S | 6330 | 20G13 | *Oismal Swamp | | | | | |
| 21F15 | Paulina Prairia | 28 | 21S | 11E | 4285 | 20G14 | *Finlay Corrals | | | | | |
| 21F3 | Tangent | 28 | 18S | 10E | 5400 | 20G4 | Hill Creek | | | | | |
| 21E13 | Three Creek Meadows | 3 | 17S | 9S | 5600 | 20G6 | Quartz Mountain | | | | | |
| 22F2 | Waldo Laka | 15 | 21S | 6E | 5500 | 20G10 | *Sherman Valley | | | | | |
| 22F14 | Willamette Pass | 33 | 24S | 5½E | 5600 | ABERT LAKE | | | | | | |
| 22F15 | Windigo Pass | 20 | 25S | 6E | 5800 | 20G15 | *Bear Flat Meadow | | | | | |
| CROOKED RIVER | | | | | | | | | | | | |
| 19E3 | Oerr | 14 | 13S | 23E | 5670 | 23H1 | Hazel View | (Cal) | 9 | 48S | 4E | 2500 |
| 20E1 | Marks Creek | 25 | 12S | 19E | 4540 | 22G17 | Hobart Lake | 17 | 40S | 3E | 5010 | |
| 20E2 | Ochoco Meadows | 21 | 13S | 20E | 5200 | 22G16 | Hyatt Prairie Reservoir | 15 | 39S | 3E | 4900 | |
| 19F1 | Snow Mountain | 1 | 19S | 26E | 6300 | 22G22 | Little Red Mountain | 25 | 40S | 2W | 6500 | |
| 19E4 | Tamarack | 8 | 15S | 25E | 4800 | 23G6 | Oregon Caves | 16 | 40S | 6W | 4000 | |
| HOOD, MILE CREEKS, LOWER DESCHUTES WATERSHEDS (6) | | | | | | | | | | | | |
| HOOD RIVER | | | | | | | | | | | | |
| 2106 | Brooks Meadows | 2 | 2S | 10E | 4300 | 23G3 | Page Mountain | 8 | 41S | 7W | 4530 | |
| 2101 | Greenpoint Reservoir | 28 | 2N | 9E | 3400 | 22G4 | Althouse | 17 | 41S | 7W | 6018 | |
| 2108 | Phlox Point | 6 | 3S | 9E | 5600 | 22G6 | Annie Spring | 19 | 31S | 6E | 6018 | |
| 2104 | Red Hill | 21 | 1S | 9E | 4400 | 22G21 | Big Red Mountain | 31 | 40S | 1W | 6500 | |
| 2109 | Still Creek | 25 | 3S | 8½E | 3700 | 22G13 | Billie Creek Oivide | 30 | 36S | 5E | 5300 | |
| 2107 | Tilly Jane | 15 | 2S | 9E | 6000 | 22G14 | Fish Laka | 3 | 37S | 4E | 4865 | |
| MILE CREEKS - MOSIER CREEK | | | | | | | | | | | | |
| 2106 | Brooks Meadows | 2 | 2S | 10E | 4300 | 22G12 | Fourmile Lake | 9 | 36S | 5E | 6000 | |
| UNPQUA RIVER | | | | | | | | | | | | |
| 22F9 | Champion | 12 | 23S | 1E | 4500 | 23G5 | Grayback Paak | 9 | 40S | 5W | 6000 | |
| 22F18 | Ciamond Lake | 29 | 27S | 6E | 5315 | 22G20 | Hazel View | (Cal) | 9 | 48S | 4E | 2500 |
| 22F16 | North Umpqua | 19 | 26S | 6E | 4215 | 22G11 | Scragg Mountain | (Cal) | 9 | 47N | 10W | 6200 |
| 22F17 | Trap Creek | 1 | 27S | 4E | 3800 | 22G10 | Seven Lakes No. 1 | 3 | 34S | 5E | 6800 | |
| 22G1 | Whaleback | 3 | 31S | 2E | 5140 | 22G11 | Seven Lakes No. 2 | 26 | 33S | 5E | 6200 | |
| 22F20 | Siskiyou Summit | 17 | 40S | 2E | 4630 | 22G2 | Silver Burn | 30 | 30S | 4E | 3720 | |
| 22G9 | South Fork Canal | 12 | 33S | 3E | 3500 | 22G20 | Siskiyou Summit | 17 | 40S | 2E | 4630 | |
| 22G18 | Wagner Butte | 1 | 40S | 1W | 6900 | 22G21 | Silver Creek | 25 | 26S | 13E | 4900 | |
| 22G1 | Whaleback | 3 | 31S | 2E | 5140 | 19H1 | Bald Mountain | (Nev) | 17 | 45N | 21E | 6720 |
| HARNEY BASIN WATERSHEDS (12) | | | | | | | | | | | | |
| SILVIES RIVER - SILVER CREEK | | | | | | | | | | | | |
| 19F2 | Delintiment Lake | | | | | 19F3 | Emigrant Butte | | | | | |
| 14 | 21S | | | | | 33 | 20S | 31E | | | | |
| 18F3 | Idlewild Camp | | | | | 18F3 | Idlewild Camp | | | | | |
| 28 | 16S | | | | | 19E9 | Izee Summit | | | | | |
| 23 | 18S | | | | | 18F1 | Rock Spring | | | | | |
| 19F1 | Snow Mountain | | | | | 19F1 | Snow Mountain | | | | | |
| 1 | 19S | | | | | 19F1 | Snow Mountain | | | | | |
| 20 | 15S | | | | | 19F1 | Snow Mountain | | | | | |
| 22 | 21S | | | | | 19F1 | Snow Mountain | | | | | |

S-19101-0



The following organizations cooperate in the Oregon Snow Survey work:

STATE

Idaho Cooperative Snow Surveys
Nevada Cooperative Snow Surveys
Oregon Agricultural Experiment Station
Oregon State Engineer and Corps of State Watermasters
Oregon State Highway Engineers
Soil Conservation Districts of Oregon

FEDERAL

Department of Agriculture
Cooperative Extension Service
Forest Service
Soil Conservation Service
Department of Commerce
Weather Bureau
Department of the Interior
Bonneville Power Administration
Bureau of Reclamation
Fish and Wildlife Service
Geological Survey
Indian Service
National Park Service
Department of National Defense
Corps of Army Engineers

PUBLIC UTILITIES

California-Pacific Utilities Company
Pacific Power and Light Company
Portland General Electric Company
The California Oregon Power Company

MUNICIPALITIES

City of Baker
City of La Grande
City of The Dalles
City of Walla Walla

IRRIGATION DISTRICTS

Associated Ditch Companies
Central Oregon Irrigation District
Deschutes County Municipal Improvement District
East Fork Irrigation District
Grants Pass Irrigation District
Jordan Valley Irrigation District
Lakeview Water Users, Incorporated
Medford Irrigation District
North Board of Control - Owyhee Project
North Unit Irrigation District
Ochoco Irrigation District
Rogue River Valley Irrigation District
South Board of Control - Owyhee Project
Talent Irrigation District
Vale-Oregon Irrigation District
Warmsprings Irrigation District

PRIVATE ORGANIZATIONS

Amalgamated Sugar Company
The Crag Rats, Hood River, Oregon

Federal - State - Private

COOPERATIVE SNOW SURVEYS

—
Furnishes the basic data
necessary for forecasting
water supply for irrigation,
domestic and municipal water
supply, hydro-electric power
generation, navigation,
mining and industry



"WATER IS THE WEST'S GREATEST RESOURCE"